

U.S. ENVIRONMENTAL PROTECTION AGENCY
 POLLUTION/SITUATION REPORT
 Duke Energy Lincolnton Transformer Release - Removal Polrep
 Initial and Final Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region IV**

Subject: POLREP #1
 Initial / Final
 Duke Energy Lincolnton Transformer Release
 B45G
 Lincolnton, NC
 Latitude: 35.4604810 Longitude: -81.2582630

To: James Webster, USEPA R4 ERRB
 Steve Lewis, NCDENR

From: Jordan Garrard, On-Scene Coordinator

Date: 1/3/2015

Reporting Period:

1. Introduction

1.1 Background

Site Number:	B45G	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	CERCLA	Response Type:	Emergency
Response Lead:	PRP	Incident Category:	Removal Assessment
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	12/29/2014	Start Date:	12/29/2014
Demob Date:	12/30/2014	Completion Date:	12/30/2014
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category
 Emergency

1.1.2 Site Description
 Electrical Substation adjacent to a business park

1.1.2.1 Location
 311 Motz Avenue
 Lincolnton, North Carolina

1.1.2.2 Description of Threat
 Three (3) 900 gallon electrical transformers were drained of the polychlorinated biphenyls (PCBs) oil onto the ground. A total of 2,700 gallons of PCB containing oil was released to the environment. The

Catawba River is less than 0.25 miles to the west of the incident location.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

On the afternoon of December 28, 2014, vandals entered the Duke Energy electrical substation on Motz Avenue in Lincolnton, North Carolina. The vandals removed the drain valves from three (3) 900 gallon transformers in an attempt to steal copper from within the transformers. A employee at the adjacent business park observed the vandals and call the local police department. The vandals left the substation before the local police department arrived on-scene and were not apprehended. The oil within the transformers is believed to contained PCBs. Based on Duke Energy inventory records the transformers contained PCB concentrations ranging from 200-230 ppm. Samples were collected to confirm the presence of PCBs. The Catawba River is located with less than 0.25 miles from the electrical substation. Based on the amount of oil released and the proximity to the Catawba River, OSC Garrard was deployed to investigate any impacts to the Catawba River and ensure response activities. The transformers were located within secondary containment.

2.1.2 Response Actions to Date

Duke Energy's OSRO Haz Mat Environmental Services responded to the spill along with Duke Energy personnel. The pooled oil was removed utilizing a vacuum truck. The remaining oil in the transformers was also removed by the vacuum truck. The secondary containment at the substation contained a liner and sumps were made in the gravel to collect discharged oil. Multiple absorbent booms were placed in the drainage ditch which leads to the Catawba River. No visible oil or sheen was observed in the drainage ditch or the outfall at the Catawba River. Soil samples were collected to determine the vertical and lateral extend of soil contamination.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

Duke Energy

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>

2.2 Planning Section

2.2.1 Anticipated Activities

On December 31, 2014, Duke Energy plans to remove and decontaminate the transformers. Excavation of impacted soils will be completed after the removal of the electrical infrastructure is removed.

2.2.1.1 Planned Response Activities

2.2.1.2 Next Steps

2.2.2 Issues

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

No information available at this time.

3. Participating Entities

No information available at this time.

4. Personnel On Site

No information available at this time.

5. Definition of Terms

No information available at this time.

6. Additional sources of information

No information available at this time.

7. Situational Reference Materials

No information available at this time.

Pressley, Miriam

From: Garrard, Jordan
Sent: Friday, June 16, 2017 3:34 PM
To: Pressley, Miriam
Subject: Fw: Contact information

From: Aspey, Darryl <darryl.aspey@HQ.DHS.GOV>
Sent: Tuesday, December 30, 2014 10:37 AM
To: Garrard, Jordan
Subject: Contact information

Jordan,

Thank you for the site information, it was a pleasure talking with you. If you don't mind, please send me any updates regarding the site cleanup efforts and PCB testing.

Regards,

Darryl

Darryl Aspey
Protective Security Advisor
North Carolina District
US Department of Homeland Security
Charlotte, NC
(b) (6) Mobile/BB

Pressley, Miriam

From: Garrard, Jordan
Sent: Friday, June 16, 2017 3:35 PM
To: Pressley, Miriam
Subject: Fw: Power sub stations

From: Aspey, Darryl <darryl.aspey@HQ.DHS.GOV>
Sent: Tuesday, December 30, 2014 5:54 PM
To: Kenneth Rhame; 'Jeff.Cardwell@ncdps.gov'
Cc: Klem, Nicholas; Garrard, Jordan
Subject: Re: Power sub stations

Thanks Ken,
Jeff, DHS IP has been very interested in this. I was notified this morning by DHS and checked Web EOC for updates. I have communicated with Duke Energy and Jordan Garrard.

Regards,

Darryl
Darryl Aspey
Protective Security Advisor
North Carolina District
US Department of Homeland Security
Charlotte, NC
(b) (6) Mobile/BB

From: Kenneth Rhame [mailto:Rhame.Kenneth@epa.gov]
Sent: Tuesday, December 30, 2014 05:41 PM Eastern Standard Time
To: Cardwell, Jeff <Jeff.Cardwell@ncdps.gov>; Aspey, Darryl
Cc: Klem, Nicholas; Garrard, Jordan <Garrard.Jordan@epa.gov>
Subject: Re: Power sub stations

Thanks Jeff. I'm on vacation this week but Jordan Garrard responded out of Atlanta. He is cc'd above. Also, Darryl Aspey called earlier today about the incident.

Ken

Sent from my iPhone

On Dec 30, 2014, at 5:19 PM, Cardwell, Jeff <Jeff.Cardwell@ncdps.gov> wrote:

FYI

Sent from my Verizon Wireless 4G LTE DROID

----- Original Message -----

Subject: Power sub stations

From: Bill Summers <bsummers@lincolncounty.org>

To: "Almond, Tommy" <tommy.almond@gastongov.com>, "Davis, Perry"

<perry.davis@clevelandcounty.com>, "Yaussey, Karyn"

<KYaussey@catawbacountync.gov>, "Webster, Paul" <pwebster@co.iredell.nc.us>, "Tobin,

Michael" <mtobin@ci.charlotte.nc.us>

CC: "Cardwell, Jeff" <Jeff.Cardwell@ncdps.gov>

I was alerted yesterday about an incident that occurred in Lincolnton, early hours of Monday. Thieves had broken the locks on a small sub-station which was mostly obscured from the road by trees. They tripped the station off line and began to drain the cooling medium from one of three ground mounted transformers. They also began to dismantle the station to allow access to the heavy copper bus bars on the interior and overhead. Approximately 2500 gallons of oil (possibly PCB laden) was allowed to drain from the transformer onto the ground. A van was stolen from a nursery not far from there by hot wiring the ignition and it was driven to the substation to haul the scavenged copper wire and other components away. This operation was interrupted by someone that was coming to work early at a nearby local business. The vandals escaped but did return the van to a local funeral home.

Case in point—this was the fifth substation vandalized by this type of operation in just a few days. I think Gaston experienced several of the five substations. Just wanted to give everyone a heads up. Not sure how wide spread this info is but everyone needs to be aware.

Duke Energy said if the vandals had been mostly successful the salvage figure for the copper would be well over \$50,000. If the oil is PCB the Environmental impact may well exceed that.

Bill Summers

Deputy Coordinator Emergency Management

Coordinator Type 1

Deputy Fire Marshal

Fire Inspector Level III

Lincoln County, North Carolina

115 West Main Street

Lincolnton, N.C. 28092

office 704-736-8660

cell (b) (6) ✓

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From: Garrard, Jordan
Sent: Friday, June 16, 2017 3:35 PM
To: Pressley, Miriam
Subject: Fw: Power sub stations

From: Klem, Nicholas <Nicholas.Klem@HQ.DHS.GOV>
Sent: Tuesday, December 30, 2014 5:52 PM
To: Kenneth Rhame; 'Jeff.Cardwell@ncdps.gov'; Aspey, Darryl
Cc: Garrard, Jordan
Subject: Re: Power sub stations

Jeff, do you have info or the poc for the other incidents mentioned?

W/r

Nick

Nicholas Klem
DHS/NC ISAAC
Raleigh, NC
919.716.1118 o
(b) (6) c
nicholas.klem@dhs.gov (U)
nicholas.klem@dhs.sgov.gov (S)

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Pressley, Miriam

From: Garrard, Jordan
Sent: Friday, June 16, 2017 3:36 PM
To: Pressley, Miriam
Subject: Fw: Oil Spill Motz Ave, Linconton NC
Attachments: Scanned from a Xerox multifunction device.pdf

From: Nesbit, Parks A <Parks.Nesbit@duke-energy.com>
Sent: Friday, January 2, 2015 9:12 AM
To: Garrard, Jordan
Subject: Oil Spill Motz Ave, Linconton NC

Jordan, please find attached a copy of the Police Report . If you can't view it let me know and I will fax to your office. I will send you any additional information I receive from the police department as it comes in should you need it...Also I will pick up a copy of the lab report Monday and send it.

Hope you and the family have a great year in 2015.... PAN

INCIDENT DATA	Agency Name Lincolnton Police Department		INCIDENT/INVESTIGATION REPORT		OCA 2014-005554				
	ORI NC050100				Date / Time Reported (S) M T W T F S Month Day Yr Time 12 28 2014 12:10 Hrs				
	#1	Crime / Incident(s) 1400 - Damage To Property	<input type="checkbox"/> Attempt <input checked="" type="checkbox"/> Complete	At Found Month Day Yr Time 12 28 2014 11:55 Hrs	(S) M T W T F S Last Known Secure Month Day Yr Time 12 28 2014 11:15 Hrs				
	#2	Crime Incident 0690 - Larceny Of Copper	<input type="checkbox"/> Attempt <input checked="" type="checkbox"/> Complete	Location of Incident 311 Motz Avenue, Lincolnton, NC 28092		Offense Tract S			
#3	Crime Incident	<input type="checkbox"/> Attempt <input checked="" type="checkbox"/> Complete	Premise Type 98 - All Other		Victim Residence Type <input type="checkbox"/> Single Family <input type="checkbox"/> Multi Family				
MO	How Attacked or Committed By unknown persons disassembling and taking copper fixtures.				Forcible <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Weapon / Tools 18 - Other Cutting Instrument			
VICTIM	# of Victims 1	Type: <input type="checkbox"/> Person <input checked="" type="checkbox"/> Business <input type="checkbox"/> Society <input type="checkbox"/> Government <input type="checkbox"/> Financial Institute <input type="checkbox"/> Religious <input type="checkbox"/> L.E. Officer Line of Duty <input type="checkbox"/> Other/Unk	Injury: <input type="checkbox"/> None <input type="checkbox"/> Minor <input type="checkbox"/> Loss of Teeth <input type="checkbox"/> Broken Bones <input type="checkbox"/> Severe Lacerations <input type="checkbox"/> Internal <input type="checkbox"/> Unconscious <input type="checkbox"/> Other Major		Drug/Alcohol Use: <input type="checkbox"/> Yes <input type="checkbox"/> Unknown <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
	V1	Victim/Business Name (Last, First, Middle) Duke Power	Victim of Crime # 1.2	DOB / Age	Race	Sex			
	Home Address				Home Phone				
	Employer Name/Address				Business Phone				
	VYR	Make	Model	Style	Color	Lic/Lis	Vin		
OTHERS INVOLVED	CODES: V = Victim (Denote V2, V3) O = Owner (if other than victim) R = Reporting Person (if other than victim)								
	Type: <input type="checkbox"/> Person <input type="checkbox"/> Business <input type="checkbox"/> Society <input type="checkbox"/> Government <input type="checkbox"/> Financial Institute <input type="checkbox"/> Religious <input type="checkbox"/> L.E. Officer Line of Duty <input type="checkbox"/> Other/Unknown								
	Code R	Name (Last, First, Middle) Carmichael, Corwin	Victim of Crime #	DOB / Age	Race	Sex			
	Home Address				Home Phone				
	Employer Name/Address 311 Motz Avenue, Lincolnton, NC 28092				Business Phone (704) 451-8600				
PROPERTY	Type: <input type="checkbox"/> Person <input type="checkbox"/> Business <input type="checkbox"/> Society <input type="checkbox"/> Government <input type="checkbox"/> Financial Institute <input type="checkbox"/> Religious <input type="checkbox"/> L.E. Officer Line of Duty <input type="checkbox"/> Other/Unknown								
	Code O	Name (Last, First, Middle) Mobley, Rusty	Victim of Crime #	DOB / Age	Race	Sex			
	Home Address				Home Phone				
	Employer Name/Address Duke Power				Business Phone				
	Status Codes L = Lost S = Stolen R = Recovered D = Damaged Z = Seized B = Burned C = Counterfeit / Forged F = Found (Check "OJ" column if recovered for other jurisdiction)								
PROPERTY	Victim #	DCI	Status	Value	OJ	QTY	Property Description	Make/Model	Serial Number
	1	99	S	0.00		1	Assorted Copper Fixtures		
	1	99	D	300000.00			Mineral oils and additives released onto the ground (conta		
STATUS	ID	Officer Name Patrol Officer Richard E. Harrington	ID# H9758	Officer Signature		Supervisor Signature			
	Complainant Signature	Case Status <input checked="" type="checkbox"/> Further Investigation <input type="checkbox"/> Inactive <input type="checkbox"/> Closed/Cleared <input type="checkbox"/> Closed/Leads Exhausted		Case Disposition: <input type="checkbox"/> Unfounded <input type="checkbox"/> Juvenile/No Custody <input type="checkbox"/> Extradition Declined <input type="checkbox"/> Cleared by Arrest <input type="checkbox"/> Refuse to Cooperate <input type="checkbox"/> Located <input type="checkbox"/> Cleared by Arrest by Another Agency <input type="checkbox"/> Death of Offender <input type="checkbox"/> Prosecution Declined					
Page 1 of 2									

Page 2

OCA
2014-005554

Status Codes		L = Lost S = Stolen R = Recovered D = Damaged Z = Seized B = Burned C = Counterfeit / Forged F = Found															
DRUGS	DCI	Status	Quantity	Type Measure	Suspected Type					Check up to 3 types of activity for each							
										Possess	Buy	Sale	Mfg	Importing	Operating		
OFFENDER	Offender Used Alcohol/Drugs			<input type="checkbox"/> Yes <input type="checkbox"/> Unk <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Offender 1								Primary Offender Resident Status			
	Computer			<input type="checkbox"/> Yes <input type="checkbox"/> Unk <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Age 00 Race U Sex U				Age Race Sex				Age Race Sex			
						Age Race Sex				Age Race Sex				Age Race Sex			
						Age Race Sex				Age Race Sex				Age Race Sex			
SUSPECT	Name (Last, First, Middle)					Alias or Nickname					Home Address						
	Occupation					Business Address											
	DOB / Age			Race	Sex	Height	Weight	Build	Hair Color	Hair Style	Hair Length	Eye Color	Glasses				
	00			U	U												
	Scars, Marks, Tattoos, or other distinguishing features (i.e. limp, foreign accent, voice characteristics)																
	Hat	Jacket	Shirt/Blouse	Tie/Scarf	Coat/Suit	Pants/Dress/Skirt	Socks	Shoes									
	Was Suspect Armed?		Type of Weapon				Direction of Travel			Mode of Travel							
							East			Veh.							
VYR	Make	Model	Style	Color	Lic/Lis	Vin											
GRY																	
WITNESS	Name (last, first, middle)					DOB / Age		Race	Sex	OCA							
	Home Address					Home Phone		Employer		Phone							
	Suspect Hate / Bias Motivated: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																
NARRATIVE	Narrative																
	R/P advised he was returning from lunch and noticed a small gray car in the parking area next to the substation. He returned a few minutes later to investigate further. He parked his veh next to the gate of the substation and started to call 911. At about that same time the car drove around him at a high rate of speed. Both persons in the front seat were bent over as to hide their faces. He attempted to follow as they went east on Motz Ave. the car was lost at about S. Aspen St. He further advised when he first observed the veh. The drivers door was ajar and the trunk was open.																
	Myself & Sgt. Summers responded and found assorted tools and a ladder as well as bolts and nuts laying around. It appeared that a large amount of copper had been removed from around the structure. As well as the holding tanks having been emptied of the mineral oil/additives onto the ground.																
	Pictures were taken and all available evidence collected for possible further investigation.																
	Rusty Mobley a representative for Duke Power advised of a estimated total damage of over \$300,000.00.																
	R/P also noted that car had paint damage to the driver side rear corner and that there appeared to be duct tape holding the bumper skin up.																

Pressley, Miriam

From: Garrard, Jordan
Sent: Friday, June 16, 2017 3:55 PM
To: Pressley, Miriam
Subject: Fw: SPCC Plan and EPA contact - 311 Motz Ave. Substation
Attachments: J14120455 Report.pdf; Scanned from a Xerox multifunction device.pdf; img-122121617-0001.pdf

From: jim surane (b) (6) >
Sent: Friday, January 23, 2015 1:39 PM
To: Garrard, Jordan
Cc: (b) (6), (b) (6)
Subject: FW: SPCC Plan and EPA contact - 311 Motz Ave. Substation

Dear Mr. Jordan:

My name is James Surane. I am an attorney in North Carolina. I have been retained by Corwin Carmichael. Mr. Carmichael owns the property that is the subject of the attached reports. I was hoping to have the opportunity to speak with you sometime today to discuss the reports. If you could kindly contact me on my cell phone at (b) (6) ✓

Thank you.

Jim Surane
Attorney at Law

From: Weber, Steven D. [mailto:steveweber@parkerpoe.com]
Sent: Thursday, January 22, 2015 4:50 PM
To: 'JSurane@aol.com'
Cc: 'Garry.Rice@duke-energy.com'
Subject: SPCC Plan and EPA contact - 311 Motz Ave. Substation

Jim:

Per our earlier conversation, below is an e-mail Duke sent to EPA regarding the situation in Lincolnton. Note that the EPA contact is Jordan Garrard. Mr. Garrard's e-mail address is below. The site SPCC plan was attached to the e-mail, along with sample results and the police report. Please let me know if you need further information.

Steve

Steve Weber
Partner



Three Wells Fargo Center | 401 South Tryon Street | Suite 3000 | Charlotte, NC 28202

Office: 704.335.9065 | Fax: 704.335.9748 | [vcard](#) | [map](#)

Visit our new website at

www.parkerpoe.com

From: Nesbit, Parks A

Sent: Thursday, January 22, 2015 12:22 PM

To: garrard.jordan@epa.gov

Subject: 311 Motz Ave., Lincolnton, NC - Oil Spill

Jordan, per our conversation;

I am attaching the analytical results from the samples taken from the oil spill as result of vandalism and thief at the Duke Energy Motz Ave. Substation in Lincolnton, NC, December 29, 2015.

I am also attaching the SPCC plan that I give you a copy of when we met a Motz Ave. Substation on the 29th of December should you need and electronic copy for your records along with a copy of the police report, reporting the vandalism/thief incident.

Should you need additional information please contact me directly at 704-640-1250...Parks Nesbit

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Certificate of Laboratory Analysis

Project: N/A

J14120455

Program Manager: Rodney G Wike

Please contact the Program Manager, Rodney G Wike, at 980-875-5186 with any questions regarding this report.

Sample Number: 2014034768		OS #1 311 Motz Ave				
Collected Date: 12/29/2014 03:30 PM		Collected By: L.C.WILLIAMS		Date Received: 12/30/14		
<u>Result:</u>	<u>Units:</u>	<u>Qualifier:</u>	<u>RDL:</u>	<u>Dilution:</u>	<u>Method:</u>	
Polychlorinated Biphenyls (PCBs) by Gas Chromatography - (Analysis Performed by Pace Laboratories)						
Vendor Parameter	Complete			1	V_PACE	

Sample Number: 2014034769		OS #2 311 Motz Ave				
Collected Date: 12/29/2014 03:30 PM		Collected By: L.C.WILLIAMS		Date Received: 12/30/14		
<u>Result:</u>	<u>Units:</u>	<u>Qualifier:</u>	<u>RDL:</u>	<u>Dilution:</u>	<u>Method:</u>	
Polychlorinated Biphenyls (PCBs) by Gas Chromatography - (Analysis Performed by Pace Laboratories)						
Vendor Parameter	Complete			1	V_PACE	

Program Manager: Rodney G Wike
980-875-5186

Report Authorized By:
(Signature)

rodney.wike@d
uke-
energy.com

Digitally signed by
rodney.wike@duke-energy.com
DN: cn=rodney.wike@duke-
energy.com
Date: 2015.01.07 08:32:55 -05'00'

This report should not be reproduced, except in its entirety, without the written consent of Duke Energy Corporation. All results are reported on dry weight unless otherwise noted. This report is not to be used for regulatory purposes. These results meet method requirements except where noted with qualifiers or program comments.

Mail Code MG03A2 -- 13339 Hagers Ferry Road, Huntersville, NC 28078. -- Phone: 704-787-5245 Fax 980-875-4349

Wednesday, 07 Jan 2015, 08:30 AM

Page # 1 of 1

December 30, 2014

Program Manager
Duke Energy
13339 Hagers Ferry Road
Bldg. 7405 MG30A2
Huntersville, NC 28078

RE: Project: J14120455
Pace Project No.: 92231176

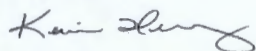
Dear Program Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
HORIZON Database Administrator

Enclosures

cc: Program Manager, Duke Energy
Rodney Wike, Duke Energy



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: J14120455
Pace Project No.: 92231176

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: J14120455
Pace Project No.: 92231176

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92231176001	OS#1	EPA 8082	RES	8	PASI-C
92231176002	OS#2	EPA 8082	RES	8	PASI-C

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: J14120455
Pace Project No.: 92231176

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92231176001	OS#1					
EPA 8082	PCB-1260 (Aroclor 1260)	266 mg/kg		25.0	12/30/14 08:57	
92231176002	OS#2					
EPA 8082	PCB-1260 (Aroclor 1260)	293 mg/kg		25.0	12/30/14 09:17	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J14120455

Pace Project No.: 92231176

Method: EPA 8082
Description: 8082 GCS PCB
Client: Duke Energy
Date: December 30, 2014

General Information:

2 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3580 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/31990

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- OS#1 (Lab ID: 92231176001)
 - Decachlorobiphenyl (S)
- OS#2 (Lab ID: 92231176002)
 - Decachlorobiphenyl (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J14120455
Pace Project No.: 92231176

Sample: OS#1 Lab ID: 92231176001 Collected: 12/29/14 15:30 Received: 12/29/14 16:41 Matrix: Non Aqueous Liquids

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3580								
PCB-1016 (Aroclor 1016)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 08:57	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 08:57	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 08:57	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 08:57	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 08:57	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 08:57	11097-69-1	
PCB-1260 (Aroclor 1260)	266	mg/kg	25.0	25	12/29/14 16:54	12/30/14 08:57	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	0 %		49-130	25	12/29/14 16:54	12/30/14 08:57	2051-24-3	S4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J14120455
Pace Project No.: 92231176

Sample: OS#2 Lab ID: 92231176002 Collected: 12/29/14 15:36 Received: 12/29/14 16:41 Matrix: Non Aqueous Liquid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3580								
PCB-1016 (Aroclor 1016)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 09:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 09:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 09:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 09:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 09:17	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/kg	25.0	25	12/29/14 16:54	12/30/14 09:17	11097-69-1	
PCB-1260 (Aroclor 1260)	293	mg/kg	25.0	25	12/29/14 16:54	12/30/14 09:17	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	0 %		49-130	25	12/29/14 16:54	12/30/14 09:17	2051-24-3	S4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J14120455
Pace Project No.: 92231176

QC Batch: OEXT/31990 Analysis Method: EPA 8082
QC Batch Method: EPA 3580 Analysis Description: 8082 GCS PCB Oil
Associated Lab Samples: 92231176001, 92231176002

METHOD BLANK: 1360800 Matrix: Non Aqueous Liquid
Associated Lab Samples: 92231176001, 92231176002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	ND	1.0	12/29/14 18:19	
PCB-1221 (Aroclor 1221)	mg/kg	ND	1.0	12/29/14 18:19	
PCB-1232 (Aroclor 1232)	mg/kg	ND	1.0	12/29/14 18:19	
PCB-1242 (Aroclor 1242)	mg/kg	ND	1.0	12/29/14 18:19	
PCB-1248 (Aroclor 1248)	mg/kg	ND	1.0	12/29/14 18:19	
PCB-1254 (Aroclor 1254)	mg/kg	ND	1.0	12/29/14 18:19	
PCB-1260 (Aroclor 1260)	mg/kg	ND	1.0	12/29/14 18:19	
Decachlorobiphenyl (S)	%	92	49-130	12/29/14 18:19	

LABORATORY CONTROL SAMPLE & LCSD: 1360801

1360802

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	10	9.8	11.1	98	111	50-148	12	30	
PCB-1260 (Aroclor 1260)	mg/kg	10	9.4	10.4	94	104	53-149	11	30	
Decachlorobiphenyl (S)	%				89	86	49-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: J14120455
Pace Project No.: 92231176

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J14120455
Pace Project No.: 92231176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92231176001	OS#1	EPA 3580	OEXT/31990	EPA 8082	GCSV/19935
92231176002	OS#2	EPA 3580	OEXT/31990	EPA 8082	GCSV/19935

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
Document Number:
F-CHR-CS-003-rev.15

Document Revised: September 22, 2017
Page 1 of 2
Duke Energy Analytical Laboratory
Issuing Authority
Page 12 of 13
Pace Huntersville Quality Office

Client Name: Duke Energy

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: NA °C Biological Tissue Is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: JS 12/29/14

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>no time/date on label</u>
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, Wt-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

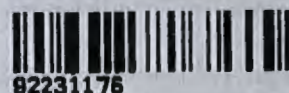
Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JS Date: 12/29/14
SRF Review: MMO Date: 12/30/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92231176





Analytical Laboratory Use Only

Samples	NG
Originating	SC
From	OH

SAMPLE PROGRAM
 Ground Water _____
 NPDES _____
 Other _____
 Plant _____
 RCRA Waste _____

92231176

Analytical Laboratory Use Only			
Work Order	Matrix:	Samples	NC <input checked="" type="checkbox"/>
		Originating	SC <input type="checkbox"/>
		From	OH <input type="checkbox"/>
Logged By	Date & Time	SAMPLE PROGRAM Ground Water _____ NPDES _____ Other _____ Plant _____ RCRA Waste _____	
Vendor		Cooler Temp (C)	92231176

Page 1 of 1
DISTRIBUTION
ORIGINAL to LAB,
COPY to CLIENT

PO#	15 Preserv.: 1=HCl 2= H_2SO_4 3= HNO_3 4=ice 5=None
-----	---

21) Relinquished By	Date/Time	Accepted By:	Date/Time	22) Requested Turnaround 14 Days _____ 7 Days _____ 48 Hr _____ City: _____ Ad: _____
Relinquished By	Date/Time	Accepted By:	Date/Time	
Relinquished By	Date/Time	Accepted By:	Date/Time	
Scaled/Locked By	Date/Time	Scaled/Lock Opened By	Date/Time	
24) Comments				

INCIDENT DATA	Agency Name Lincolnton Police Department		INCIDENT/INVESTIGATION REPORT		OCA 2014-005554				
	ORI NC0550100				Date / Time Reported (S) M T W T F S Month 12 Day 28 Yr 2014 Time 12:10 Hrs				
	#1	Crime / Incident(s) 1400 - Damage To Property	<input type="checkbox"/> Attempt <input checked="" type="checkbox"/> Complete	At Found Month 12 Day 28 Yr 2014 Time 11:55 Hrs	(S) M T W T F S	Last Known Secure (S) M T W T F S Month 12 Day 28 Yr 2014 Time 11:15 Hrs			
#2	Crime Incident 0690 - Larceny Of Copper	<input type="checkbox"/> Attempt <input checked="" type="checkbox"/> Complete	Location of Incident 311 Motz Avenue, Lincolnton, NC 28092		Offense Tract S				
#3	Crime Incident	<input type="checkbox"/> Attempt <input checked="" type="checkbox"/> Complete	Premise Type 98 - All Other	Victim Residence Type <input type="checkbox"/> Single Family <input type="checkbox"/> Multi Family					
MO	How Attacked or Committed By unknown persons disassembling and taking copper fixtures.				Forcible <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
					Weapon / Tools 18 - Other Cutting Instrument				
VICTIM	# of Victims 1	Type: <input type="checkbox"/> Person <input checked="" type="checkbox"/> Business <input type="checkbox"/> Society <input type="checkbox"/> Government <input type="checkbox"/> Financial Institute <input type="checkbox"/> Religious <input type="checkbox"/> L.E. Officer Line of Duty <input type="checkbox"/> Other/Unk	Injury: <input type="checkbox"/> None <input type="checkbox"/> Minor <input type="checkbox"/> Loss of Teeth <input type="checkbox"/> Broken Bones <input type="checkbox"/> Severe Lacerations <input type="checkbox"/> Internal <input type="checkbox"/> Unconscious <input type="checkbox"/> Other Major		Drug/Alcohol Use: <input type="checkbox"/> Yes <input type="checkbox"/> Unknown <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
	V1	Victim/Business Name (Last, First, Middle) Duke Power	Victim of Crime # 1,2	DOB / Age	Race Sex Relationship To Offender Resident Status <input type="checkbox"/> Resident <input type="checkbox"/> Non-Resident <input type="checkbox"/> Unknown				
	Home Address				Home Phone				
	Employer Name/Address				Business Phone				
	VYR	Make	Model	Style	Color	Lic/Lis Vin			
OTHERS INVOLVED	CODES: V = Victim (Denote V2, V3) O = Owner (if other than victim) R = Reporting Person (if other than victim)								
	Type: <input type="checkbox"/> Person <input type="checkbox"/> Business <input type="checkbox"/> Society <input type="checkbox"/> Government <input type="checkbox"/> Financial Institute <input type="checkbox"/> Religious <input type="checkbox"/> L.E. Officer Line of Duty <input type="checkbox"/> Other/Unknown								
	R	Name (Last, First, Middle) Carmichael, Corwin	Victim of Crime #	DOB / Age (b) (6)	Race Sex W M				
	Home Address				Home Phone				
	Employer Name/Address 311 Motz Avenue, Lincolnton, NC 28092				Business Phone (704) 451-8600				
PROPERTY	Type: <input type="checkbox"/> Person <input type="checkbox"/> Business <input type="checkbox"/> Society <input type="checkbox"/> Government <input type="checkbox"/> Financial Institute <input type="checkbox"/> Religious <input type="checkbox"/> L.E. Officer Line of Duty <input type="checkbox"/> Other/Unknown								
	O	Name (Last, First, Middle) Mobley, Rusty	Victim of Crime #	DOB / Age	Race Sex W M				
	Home Address				Home Phone (b) (6)				
	Employer Name/Address Duke Power				Business Phone				
	Status Codes L = Lost S = Stolen R = Recovered D = Damaged Z = Seized B = Burned C = Counterfeit / Forged F = Found (Check "OJ" column if recovered for other jurisdiction)								
PROPERTY	Victim #	DCI	Status	Value	OJ	QTY	Property Description	Make/Model	Serial Number
	1	99	S	0.00		1	Assorted Copper Fixtures		
	1	99	D	300000.00			Mineral oils and additives released onto the ground (conta		
Number of Vehicles Stolen					Number of Vehicles Recovered				
ID	Officer Name Patrol Officer Richard E. Harrington		ID# H9758	Officer Signature		Supervisor Signature			
	Complainant Signature		Case Status <input checked="" type="checkbox"/> Further Investigation <input type="checkbox"/> Inactive <input type="checkbox"/> Closed/Cleared <input type="checkbox"/> Closed/Leads Exhausted		Case Disposition: <input type="checkbox"/> Unfounded <input type="checkbox"/> Juvenile/No Custody <input type="checkbox"/> Extradition Declined <input type="checkbox"/> Cleared by Arrest <input type="checkbox"/> Refuse to Cooperate <input type="checkbox"/> Located <input type="checkbox"/> Cleared by Arrest by Another Agency <input type="checkbox"/> Death of Offender <input type="checkbox"/> Prosecution Declined				
STATUS									Page 1 of 2

INCIDENT/INVESTIGATION REPORT

Page 2

OCA

2014-005554

Status Codes		L = Lost S = Stolen R = Recovered D = Damaged Z = Seized B = Burned C = Counterfeit / Forged F = Found																
DRUGS	DCI	Status	Quantity	Type Measure	Suspected Type					Check up to 3 types of activity for each								
										Possess	Buy	Sale	Mfg	Importing	Operating			
OFFENDER	Offender Used Alcohol/Drugs		<input type="checkbox"/> Yes <input type="checkbox"/> Unk <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Offender 1			Age 00 Race U Sex U			Age Race Sex			Age Race Sex			Primary Offender Resident Status	
	Computer		<input type="checkbox"/> Yes <input type="checkbox"/> Unk <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A					Age Race Sex			Age Race Sex			Age Race Sex			<input type="checkbox"/> Resident <input type="checkbox"/> Non-Resident <input checked="" type="checkbox"/> Unknown	
SUSPECT	Name (Last, First, Middle)				Alias or Nickname				Home Address									
	Occupation				Business Address													
	DOB / Age			Race	Sex	Height	Weight	Build	Hair Color	Hair Style	Hair Length	Eye Color	Glasses					
	00			U	U													
	Scars, Marks, Tattoos, or other distinguishing features (i.e. limp, foreign accent, voice characteristics)																	
	Hat	Jacket	Shirt/Blouse	Tie/Scarf	Coat/Suit	Pants/Dress/Skirt	Socks	Shoes										
WITNESS	Was Suspect Armed?		Type of Weapon				Direction of Travel				Mode of Travel							
							East				Veh.							
	VYR	Make	Model	Style	Color	Lic/Lis	Vin											
NARRATIVE	Name (last, first, middle)				DOB / Age			Race	Sex	OCA								
	Home Address				Home Phone			Employer			Phone							
NARRATIVE	Suspect Hate / Bias Motivated: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																	
	Narrative																	
	R/P advised he was returning from lunch and noticed a small gray car in the parking area next to the substation. He returned a few minutes later to investigate further. He parked his veh next to the gate of the substation and started to call 911. At about that same time the car drove around him at a high rate of speed. Both persons in the front seat were bent over as to hide their faces. He attempted to follow as they went east on Motz Ave. the car was lost at about S. Aspen St. He further advised when he first observed the veh. The drivers door was ajar and the trunk was open.																	
	Myself & Sgt. Summers responded and found assorted tools and a ladder as well as bolts and nuts laying around. It appeared that a large amount of copper had been removed from around the structure. As well as the holding tanks having been emptied of the mineral oil/additives onto the ground.																	
	Pictures were taken and all available evidence collected for possible further investigation.																	
	Rusty Mobley a representative for Duke Power advised of a estimated total damage of over \$300,000.00.																	
	R/P also noted that car had paint damage to the driver side rear corner and that there appeared to be duct tape holding the bumper skin up.																	

Spill Prevention, Control & Countermeasure Plan

Site Specific Information

Station Reference #: STA4244

Station Name: MOTZ AVE SS

Station 911 Address: MOTZ AVE, LINCOLNTON, NC

Operating Area #: 40

Carolina Zone: CENTRAL WEST

Location of Master Copy of Plan:
GASTONIA JCT OFFICE

Location Phone #:
704-866-5195

GPS Coordinates for Facility:

Latitude: 35.460805

Longitude: -81.257047

Directions to Facility:

From intersection of Hwys 150 and 321 Business in Lincolnton, go South on Hwy 321 Business (Generals Blvd) Bypass to Hwy 321 South. Go North on 321 toward Lincolnton to Motz Avenue and turn left. Go approximately 2 blocks. The station is on the left.

Date of SPCC Inspection:

11/2/2010

Plan Reviewed By:

Walter E. Sikes

Inspected By:

Donald Warren

Plan Date or Date Reviewed:

10/15/2011

I hereby certify that this Site Specific SPCC Plan is in compliance with the provisions of 40 CFR 112 and attest that this Site Specific SPCC Plan was prepared in accordance with good engineering practices.

CORPORATE LICENSE INFORMATION / SEAL

Watana Engineering P.C.
License: C-2215
3124 High Ridge Rd.
Charlotte, N.C. 28270

ENGINEER SEAL



Walter E. Sikes

Station Reference #: STA4244

Station Name: MOTZ AVE SS

Spill Mitigation Approach: BERMING EXISTING

This Facility Utilizes a Fire Protection System: NO

Description of Fluid Flows in an Event of a Spill

Should a spill occur, oil will flow into berm installed around oil filled substation equipment. If spill overflows the berm, oil will flow southwest across a graveled and fenced substation lot (fenced lot is approximately 50' x 50'). Once oil passes thru the fence, it will continue approximately 100' southwest to a storm drain in front of the building.

Other Comments/Explanations

The berm installed around the oil filled substation equipment is designed to contain oil spilled from the largest single container and rainfall expected to occur until response personnel begin implementation of the Power Delivery Oil Spill Contingency Plan. Details of this contingency plan are contained in Attachment VII of the Duke Energy Spill Prevention Control and Countermeasure Plan, Carolinas- Central Gastonia Operating Areas 40 & 42, Substation Operations & Maintenance Responsibility. The berm is constructed of compacted aggregate base course stone and has a "gate" installed at the low point. The "gate" consists of a length of C.I.Agent barrier boom covered with rip rap. The C.I.Agent barrier boom consists of a non-woven geo-textile fabric filled with polymer material and backed with an additional layer of non-woven geo-textile fabric with polymer fabric material embedded within the fabric. The polymer material is permeable to water, but upon contact with oil becomes impermeable. This results in the C.I.Agent barrier boom acting as a "gate" allowing rainfall to drain from the berm as long as oil is not present. Should an oil spill occur, the "gate" will close, containing any oil and water present and thereby allow time for response personnel to implement the Power Delivery Spill Contingency Plan. Additional details for the berm can be found in the attached SPCC Facility Diagram.

Reference Drawings	
Drawing Number	Drawing Description
4244SM	Site Map
4244SP01	SPCC Facility Diagram

SPILL PREVENTION, CONTROL & COUNTERMEASURES PLAN

SITE SPECIFIC INFORMATION

Station Reference #: STA4244
Station Name: MOTZ AVE SS
Station 911 Address: MOTZ AVE, LINCOLNTON, NC
Operating Area #: 40
Carolina Zone: CENTRAL WEST

SOURCES OF OIL

Maximo Equip ID	MFG	S/N	DESCRIPTION	Total Quantity of Fluid (Gallons) Per Container	Major Spill Scenario
TRF1243	AC	3703610	TBK ID: 01 PCB Contaminated	906	TANK RUPTURE
TRF1244	AC	3703611	TBK ID: 01 PCB Contaminated	906	TANK RUPTURE
TRF1245	AC	3703612	TBK ID: 01 PCB Contaminated	906	TANK RUPTURE

Total Gallons of Oil: 2718



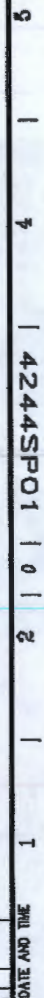
Revision Date: 5/19/2010
Form Version 4.0

DUKE ENERGY		
CHARLOTTE, NC		
SPILL PREVENTION, CONTROL & COUNTERMEASURE PLAN		
SITE MAP		
STATION NAME:		MOTZ AVE SS
LOCATION:		LINCOLN, NC
STATION NO: 4244	IMAGERY DATE: 4/11/2010	DATE: 9/18/2011
DRAWING NO:		4244SM1



Revision Date: 5/19/2010
Form Version 4.0

DUKE ENERGY CHARLOTTE, NC			
SPILL PREVENTION, CONTROL & COUNTERMEASURE PLAN SITE MAP			
STATION NAME:		MOTZ AVE SS	
LOCATION:		LINCOLNTON, NC	
STATION NO:	4244	IMAGERY DATE:	4/11/2010
		DATE:	9/18/2011
		DRAWING NO:	4244SM2



Pressley, Miriam

From: Garrard, Jordan
Sent: Friday, June 16, 2017 3:36 PM
To: Pressley, Miriam
Subject: Fw: Oil Spill Motz Ave, Linconton NC

From: Aspey, Darryl <darryl.aspey@HQ.DHS.GOV>
Sent: Friday, January 2, 2015 10:04 AM
To: Garrard, Jordan
Subject: Re: Oil Spill Motz Ave, Linconton NC

Jordan,
Thank you for the additional information.

I hope 2015 is a great year for you and your family.

Regards,

Darryl
Darryl Aspey
Protective Security Advisor
North Carolina District
US Department of Homeland Security
Charlotte, NC
(b) (6) Mobile/BB

----- Original Message -----

From: Garrard, Jordan [<mailto:Garrard.Jordan@epa.gov>]
Sent: Friday, January 02, 2015 09:54 AM Eastern Standard Time
To: Aspey, Darryl
Subject: Fw: Oil Spill Motz Ave, Linconton NC

Sent from my BlackBerry 10 smartphone on the Verizon Wireless 4G LTE network.

Original Message

From: Nesbit, Parks A <Parks.Nesbit@duke-energy.com>
Sent: Friday, January 2, 2015 9:12 AM
To: Garrard, Jordan
Subject: Oil Spill Motz Ave, Linconton NC

Jordan, please find attached a copy of the Police Report . If you can't view it let me know and I will fax to your office. I will send you any additional information I receive from the police department as it comes in should you need it....Also I will pick up a copy of the lab report Monday and send it.

Hope you and the family have a great year in 2015.... PAN

Pressley, Miriam

From: Garrard, Jordan
Sent: Friday, June 16, 2017 3:55 PM
To: Pressley, Miriam
Subject: Fw: 311 Motz Ave., Lincolnton, NC - Oil Spill
Attachments: J14120455 Report.pdf; Scanned from a Xerox multifunction device.pdf; img-122121617-0001.pdf

From: Nesbit, Parks A <Parks.Nesbit@duke-energy.com>
Sent: Thursday, January 22, 2015 12:22 PM
To: Garrard, Jordan
Subject: 311 Motz Ave., Lincolnton, NC - Oil Spill

Jordan, per our conversation;

I am attaching the analytical results from the samples taken from the oil spill as result of vandalism and thief at the Duke Energy Motz Ave. Substation in Lincolnton, NC, December 29, 2015.

I am also attaching the SPCC plan that I give you a copy of when we met at Motz Ave. Substation on the 29th of December should you need and electronic copy for your records along with a copy of the police report, reporting the vandalism/thief incident.

Should you need additional information please contact me directly at 704-640-1250...Parks Nesbit

Pressley, Miriam

From: Garrard, Jordan
Sent: Friday, June 16, 2017 3:54 PM
To: Pressley, Miriam
Subject: Fw: 311 Motz Ave., Lincolnton, NC - Oil Spill
Attachments: ATT00001.htm; ATT00002.htm; ATT00003.htm

From: Garrard, Jordan
Sent: Tuesday, March 17, 2015 9:09 AM
To: Walden, Ted
Subject: Fwd: 311 Motz Ave., Lincolnton, NC - Oil Spill

Sent from my iPhone

Begin forwarded message:

From: "Nesbit, Parks A" <Parks.Nesbit@duke-energy.com>
To: "Garrard, Jordan" <Garrard.Jordan@epa.gov>
Subject: 311 Motz Ave., Lincolnton, NC - Oil Spill

Jordan, per our conversation;

I am attaching the analytical results from the samples taken from the oil spill as result of vandalism and thief at the Duke Energy Motz Ave. Substation in Lincolnton, NC, December 29, 2015.

I am also attaching the SPCC plan that I give you a copy of when we met a Motz Ave. Substation on the 29th of December should you need and electronic copy for your records along with a copy of the police report, reporting the vandalism/thief incident.

Should you need additional information please contact me directly at 704-640-1250...Parks Nesbit

Pressley, Miriam

From: Garrard, Jordan
Sent: Friday, June 16, 2017 3:54 PM
To: Pressley, Miriam
Subject: Fw: 311 Motz Ave., Lincolnton, NC - Oil Spill
Attachments: Motz Ave SPCC Full Plann 3-15.pdf; Motz Ave SPCC Plann 3-15.pdf

From: Nesbit, Parks A <Parks.Nesbit@duke-energy.com>
Sent: Tuesday, April 7, 2015 12:27 PM
To: Walden, Ted; Garrard, Jordan
Subject: RE: 311 Motz Ave., Lincolnton, NC - Oil Spill

Ted, I apologize for not sending before now (b) (6)

Let me know if this is what you needed.... PAN

From: Walden, Ted [mailto:Walden.Ted@epa.gov]
Sent: Thursday, March 19, 2015 5:21 PM
To: Nesbit, Parks A; Garrard, Jordan
Subject: FW: 311 Motz Ave., Lincolnton, NC - Oil Spill

*** Exercise caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Parks, Hi. I am the SPCC/FRP Coordinator for EPA Region 4. Jordan gave me the 'section' of the SPCC plan for the substation that was given to him. My question to you is, can you email/send me the remaining sections of the SPCC Plan? The information I have has some of the site specific SPCC information for the substation, but this information does not constitute a complete SPCC Plan.

Thanks,

Ted Walden
SPCC/FRP Coordinator
Removal Mgmt & Oil Section
Emergency Response & Removal Branch
USEPA Region 4
Atlanta, GA
404-562-8752

From: Garrard, Jordan
Sent: Tuesday, March 17, 2015 9:10 AM

To: Walden, Ted

Subject: Fwd: 311 Motz Ave., Lincolnton, NC - Oil Spill

Sent from my iPhone

Begin forwarded message:

From: "Nesbit, Parks A" <Parks.Nesbit@duke-energy.com>

To: "Garrard, Jordan" <Garrard.Jordan@epa.gov>

Subject: 311 Motz Ave., Lincolnton, NC - Oil Spill

Jordan, per our conversation;

I am attaching the analytical results from the samples taken from the oil spill as result of vandalism and thief at the Duke Energy Motz Ave. Substation in Lincolnton, NC, December 29, 2015.

I am also attaching the SPCC plan that I give you a copy of when we met a Motz Ave. Substation on the 29th of December should you need and electronic copy for your records along with a copy of the police report, reporting the vandalism/thief incident.

Should you need additional information please contact me directly at 704-640-1250...Parks Nesbit

Spill Prevention Control and Countermeasures Plan (SPCC)

Location: Duke Energy Corporation
GASTONIA JCT **Operating Area #:** 40 & 42

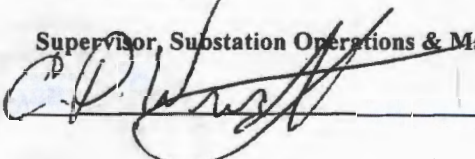
Facility Type: Electric Utility Power Supply Substation

Owner: Duke Energy Corporation
P.O. Box 1007
Charlotte, North Carolina 28201-1007

Individual designated accountable for Spill Prevention Control and Countermeasures.

Name: C. David Wright

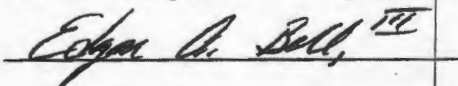
Title: Supervisor, Substation Operations & Maintenance Central/Gastonia

Signature:  **Date:** 9-13-12

Management Approval:
These SPCC plans will be implemented as herein described.

Name: Edgar A Bell III

Title: General Manager, Substation Operations and Maintenance

Signature:  **Date:** 4/20/2012

Certification:
Duke Energy Substation Facilities are geographically dispersed but fall under one common management structure within a specific geographic Operating Area. This Master SPCC plan addresses those items common to all sites within the Area. A separate Site Specific portion of this SPCC Plan has been developed and independently certified with this Master Plan.



Spill Prevention Control and Countermeasures Plan (SPCC)

I hereby certify that this Master SPCC Plan is in compliance with the provisions of 40 CFR 112 and attest this SPCC plan was prepared in accordance with good engineering practices.

CORPORATE LICENSE INFORMATION / SEAL

Duke Energy Carolinas, LLC
F-0566
526 S. Church St
Charlotte N.C. 28201

ENGINEER SEAL

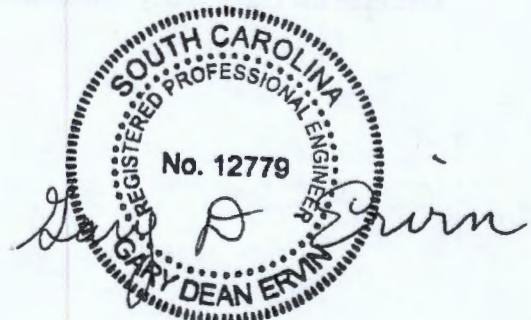


Signature:

Gary D Ervin

Date:

3/28/2012



Spill Prevention Control and Countermeasures Plan (SPCC)

The following information is located in each site-specific plan:

- Name, location, date and certification
- Equipment, amount of oil
- Site map with flow predictions*
- Site drainage discussion and statement of secondary containment evaluation

* A site map showing basic information is a part of each site-specific Plan. Site maps of the individual substations exist in various detail and condition. Due to the large number of facilities, SPCC updates are completed such that approximately 20% of the sites are reviewed and updated annually. As part of this update process, the site maps will be revised to become more consistent and more in-line with EPA Guidance Document expectations.

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Spill Prevention Control and Countermeasures Plan (SPCC)

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Spill Prevention Control and Countermeasures Plan (SPCC)

I. Introduction

Objective

The Spill Prevention, Control and Countermeasure (SPCC) Plan is a requirement of the U.S. Environmental Protection Agency (EPA) Oil Pollution Prevention Regulation, 40 CFR Part 112. The regulation applies to non-transportation-related facilities that use and/or store oil, which have the potential for spilled oil to reach navigable waters of the United States as defined under the Clean Water Act. The objective of this plan is to establish a comprehensive guide to minimize hazards to human health and the environment by the prevention and control of oil spills in **Region Operating Area**.

This amendment/update to the SPCC Plan is being made in order to:

- a. Maintain and update the existing facility SPCC plans for the area.

Management commitment to this Plan for the prevention and control of oil spills is provided on the cover sheet to this Plan.

A copy of this plan shall be maintained electronically. Also, a copy of this plan will be maintained at the Power Delivery region office.

For those facilities covered by this plan which have experienced a spill, the incidents are documented in the "Environmental Incidents Database".

In addition, a Certification of Substantial Harm Determination Form, which is a requirement for individual SPCC facilities, is included as Attachment V. The Form applies generically to all substations in Attachment VI of this Plan. Because of the nature of electrical substations, no individual sites are constructed such as to trigger the Substantial Harm thresholds and require a Facility Response Plan. This form also requires management review and approval.

This SPCC plan addresses comprehensively the topics outlined in 40 CFR112, as the SPCC section cross reference in Table 1-1 below shows.

Table 1-1 SPCC Plan and 40 CFR 112 Cross-reference		
CFR Section	CFR Section Topics	Addressed in SPCC Plan Sections
112.5(a)	Amendment after change	Section I.B
112.5(b)	Five-year review	Section I.B
112.7(a)	Facility layout, diagram, contact information	Attachment VI – Site Specific Plans
112.7(b)	Prediction of oil discharge	Attachment VI – Site Specific Plans, Oil Inventory
112.7(c)	Retention and containment	Attachment VI – Site Specific Plans
112.7(d)	Spill contingency plan	Attachment VII
112.7(e)	Inspections, tests and records	Section V.B
112.7(f)	Training and procedures	Section V.D

Spill Prevention Control and Countermeasures Plan (SPCC)

112.7(g)	Security	Section V.C
112.7(h)	Tank truck loading/unloading	Section III.C
112.7(i)	Altered field-built tank	N/A
112.7(j)	More stringent state regulations	N/A
112.8(b)	Facility drainage	Attachment VI – Site Specific Plans
112.8(c)	Bulk storage container/Oil in Use	Section III.B
112.8(d)	Transfer operations & piping	Section III.D

Plan Review and Update

This SPCC Plan covers all substations in its area/region, which meet the SPCC regulatory oil volume threshold and proximity to water requirements. Those substations are listed in Attachment VI. To comply with the requirements of 40 CFR Part 112, the SPCC Coordinator or designated personnel are to identify whenever there is a change in the substation design, construction, operation or maintenance that may materially affect the facility's potential for discharging oil into navigable waters. Current compliance deadlines for Plan amendment and implementation are identified in Section I.A. Following the 2007 and 2008 regulatory deadlines, the SPCC Plan shall be amended within six months following identification of a change to the facility. Implementation of the amended Plan shall be made no later than six months following preparation of that amendment. Material changes in the facility requiring plan amendment must be certified by a registered Professional Engineer.

In addition, as new substation sites are added to this operating area, the site specific Plan is to be developed. As required under 112.3(b), the site specific Plan must be developed and implemented prior to the new facility becoming operational. New substations may be added as an administrative update to Attachment VI. This may be done via the PD SPCC amendment process by the area SPCC Coordinator by "penciling in" the new station into Attachment VI. When the SPCC Plan is re-certified, Attachment VI will be officially updated. If/when substations are closed, the same procedure will be followed by striking the substation from the Attachment VI list and deleting the site specific Plan.

This SPCC Plan must be reviewed and evaluated at least once every five years and amended as required to include more effective prevention and control technology as per requirements of 40 CFR 112.5(b).

A Registered Professional Engineer shall certify all SPCC Plans, both this general area SPCC Plan and the site specific Plans as listed in Attachment VI.

Spill Prevention Control and Countermeasures Plan (SPCC)

II. Sources of Oil

All sources of oil at substations (requiring a SPCC Plan) in the **Master** Operating Area (55 gallons and larger) are listed in the SITE SPECIFIC section which follows Attachment VI. Information on the source of oil and predictions of flow directions are included, as well as a drawing of the facility. The inventory in the substations at times may slightly vary due to electrical equipment (transformers, breakers, capacitors, etc.) maintenance replacements. Where these minor site changes occur, the change is to be noted but would not constitute a requirement to amend the Site Plan because no material increase in spill potential has occurred.

III. Spill Prevention Controls

Secondary Containment

Substations employ oil-filled electrical equipment which due to their unique operating and design nature, as opposed to aboveground storage tanks, are not considered as bulk storage containers, 40 CFR 112.2. Because oil-filled electrical equipment is not classified as a bulk storage tank, appropriate containment as listed in 40 CFR 112.7(c) must be met. This section allows significant flexibility in providing containment versus the more stringent requirements for bulk storage tanks as outlined in 112.8(c).

Each individual substation listed in Attachment VI was reviewed by a P.E. or his/her designee. Sites were reviewed and evaluated for appropriate secondary containment need and solutions. Factors such as property ownership, safety and others were considered and solutions were developed based on the site's potential for an oil spill reaching navigable waters. Duke Energy employed EPRI's MOSES model to assist in evaluating the probability of an oil spill reaching a potential navigable water receptor.

In general, where the site posed a significant potential for a reportable spill, some type of modification is being implemented to reduce that risk. For sites that pose little to no risk, the site will rely completely upon the Contingency Plan and response resources to respond to a spill situation. Where Contingency Planning alone is planned, the site was judged low risk such that response could occur before the spill reaches the nearest receptor. Duke Energy has a system in place to allow very timely spill response. Spill response will be discussed later in the Plan and in the Contingency Plan. The site specific portion of the SPCC Plan provides information relative to flow direction and applicable response locations should a spill occur.

All substations, whether or not secondary containment is in place, are covered by the Spill Contingency Plan and a written commitment of manpower. The Spill Contingency Plan for the Region is used in conjunction with this SPCC Plan and is provided as Attachment VII to this Plan.

Spill Prevention Control and Countermeasures Plan (SPCC)

The following are typical measures utilized for secondary containment at substations. While this listing represents commonly means of secondary containment, the methodology utilized is not limited to these alone.

1. Ditches and Berming

Use of earth and a site's natural topography may be used to control the spill and its potential for reaching a receptor. Section IV of this plan provides a planned course of action to respond to oil spills in the **MASTER** Operating Area.

2. Dikes

Section IV of this plan provides a planned course of action to respond to oil spills in the **MASTER** Operating Area. Drainage from dike or containment areas, used as secondary containment, is to be restrained by valves or other positive measures. Valves (**always closed except during supervised drainage**) are to be of manual, open and closed design, (flapper-type valves are not allowed). Diked areas where emptied are to be manually activated. Drainage of rainwater from secondary containment dike area by valves or pumping is acceptable if:

- a) The bypass valve is normally sealed closed.
- b) Inspection of the run-off rainwater ensures compliance with applicable water quality standards and would not cause a sheen on surface waters.
- c) The bypass valve is opened and resealed under responsible supervision following drainage.
- d) Monthly station inspections will include the inspection of oil sources (including containment areas) for leaks or spills with correction as necessary.

3. Retention Structures

Separation containment uses containment ponds or oil-water separator tanks to restrain oil that could exit from a transformer and leave the area. Where used, the container is sized to hold the largest single transformer plus rainwater. For this volume of oil to leave the transformer, the transformer would fail and shut down the delivery. This would notify the utility quickly but the pond/tanks would contain the oil. This is an environmentally sound practice and does not jeopardize the water flowing through the separation containment system. There is not a continuous flow of oil as oil can only come from a serious leak or failure.

The retention structure/containment pond may contain a manual by-pass valve (flapper type valves are not allowed) used to drain water if needed. It is **always closed** except to drain water. Drainage of rainwater from separation containment by valves or pumping is acceptable if:

The bypass valve is normally sealed closed.
Inspection of the run-off rainwater ensures compliance with applicable water quality standards and would not cause a sheen on surface waters.
The bypass valve is opened and resealed under responsible supervision following drainage.
Monthly station inspections will include the inspection of oil sources (including containment areas) for leaks or spills with correction as necessary.

Spill Prevention Control and Countermeasures Plan (SPCC)

4. Gravel Containment

In substations, gravel is used to fill the void from the finished earthen grade to the final gravel grade. For those substations that rely on gravel alone for containment, a minimum gravel thickness is specified. This basin is also considered containment and will restrict flow by containing oil and water. Removal of contaminated gravel and earth may be necessary after a spill and will be coordinated by the SPCC Coordinator/Power Delivery EHS Field Services.

5. Earthen Berming with Polymer Gating Material

Earthen berming surrounding the substation equipment in conjunction with a specifically designed "gate" system using polymer and riprap is being used. The polymer gating allows rainfall to runoff of the substation lot by being permeable to water. In the event of an oil spill the polymer gating becomes impermeable upon contact with oil and seals the "gate" the surrounding earthen berm retains the oil/water inside the station which creates response time for the response resources and implementation of the Spill Contingency Plan. Removal of contaminated gravel and earth may be necessary after a spill and will be coordinated by the SPCC Coordinator/Power Delivery EHS Field Services. In the infrequent event of a spill at the substations, cleanup and replacement of materials to provide new containment is required.

Storage Tanks (Above Ground)

Electrical Equipment

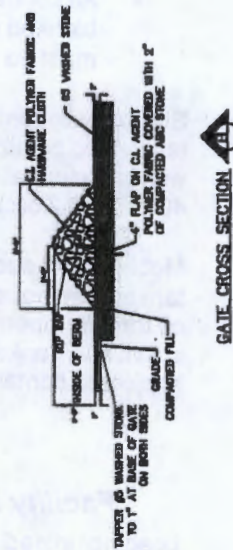
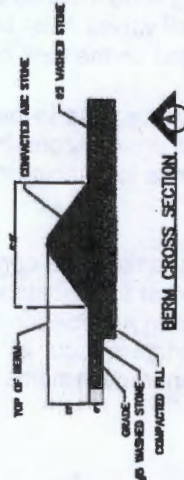
Electrical equipment is designed and constructed of materials compatible with the storage material and for appropriate design pressures and temperatures. In fact, electrical equipment shell design is to higher standards than typical storage tanks due to their operational characteristics and critical operating needs. Electrical equipment oil storage is considered under 40 CFR 112 as "oil in use". As previously stated, electrical equipment does not follow the requirements of 40 CFR 112.8 due to its uniqueness and thus does not require as stringent of secondary containment requirements, integrity testing, high level alarming, etc.

Bulk Storage Tanks

In general, bulk storage tanks are **not** used in substations. Previously, maintenance oil storage tanks which are bulk storage containers were in place inside certain substations. These tanks are to be removed or permanently closed. In order to permanently close these bulk containers, the following is required.

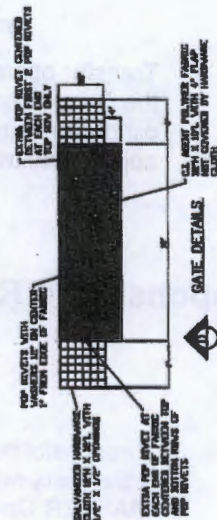
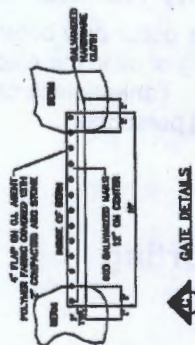
Spill Prevention Control and Countermeasures Plan (SPCC)

TYPICAL BERM CONSTRUCTION



NOTE:

1. ALL MEASUREMENTS ARE TYPICAL.
2. ALL MATERIALS PURCHASED LOCALLY EXCEPT FOR CL AGENT POLYMER FABRIC.
3. CL AGENT POLYMER FABRIC DUE ENERGY STOCK NUMBER: 071015



Spill Prevention Control and Countermeasures Plan (SPCC)

- All liquid/sludge must be removed from the container and connecting lines;
- All connecting lines must be disconnected from the container and blanked off; all valves must be locked and closed; and conspicuous signs must be posted on the tank noting closure and the date of closure.

Should bulk containers be used in the substation, secondary containment for bulk tanks is to be sized to provide containment for the largest single tank's capacity with sufficient allowance for precipitation and other requirements as identified in 40 CFR 112.8(c).

Mobile tanks such as tankers are considered bulk storage tanks. However, tankers are not stored at the substation and are only present to conduct mineral oil transfer operations in association with electrical equipment maintenance activities. Tanker transfers occur in "loading/unloading areas" and thus are only subject to containment requirements of 112.7(c).

Facility Loading/Unloading Operations

Loading/unloading operations occur via tanker/equipment at locations adjacent to the equipment. These operations occur as unloading area operations rather than as an unloading "rack" and therefore are subject to 40 CFR 112.7(c) rather than the requirements of 112.7(h).

To reduce the risk of spills, facility tanker loading/unloading guidelines are shown in Attachment I and are to be adhered to during tanker to equipment transfers.

Facility Transfer Operations

Transfer operations occur only between a tanker and electrical equipment during the removal or filling of oil in the electrical equipment. Permanent oil transfer piping is not in use. Tanker/electrical equipment transfer are always overseen by appropriate trained personnel.

IV. Spill Response and Reporting

General Responsibilities

Responsibilities for initial control and reporting to appropriate personnel for oil spills rests with all Duke Power and Power Delivery field personnel in the **MASTER** Operating Area.

Specific responsibilities are outlined below:

1. First Responder

- a) Initiate the Spill Contingency Plan

Spill Prevention Control and Countermeasures Plan (SPCC)

- b) Report the spill immediately by calling the SPCC Coordinator (See Attachment II).
- c) Report type of emergency and location.
- d) Contain the spill as much as possible
- e) Stop the source of the spill as much as possible
- f) Continue containment and restrict access to the area until the facility's SPCC Coordinator/Power Delivery, EHS support assumes responsibility.

2. Accountable Supervisor

- a) Be thoroughly familiar with all aspects of the facility's SPCC plan and monitor it for necessary changes
- b) Be familiar with the location and characteristics of all oil (products, materials, etc.) used at the facility.

3. SPCC Coordinator (See Attachment II)

- a) Shall receive initial notification from person discovering spill.
- b) Be familiar with the location and characteristics of all oil (products, materials, etc.) used at the facility.
- c) Be familiar with the location and uses of spill cleanup supplies and equipment (Attachment IV).
- d) At all times the SPCC Coordinator/Alternate must be on call.
- e) Notify site personnel when an emergency situation threatens their health.
- f) During an emergency, coordinate the facility's response and use all reasonable measures necessary to stop, contain and clean up the spill.
- g) Notify appropriate local agencies with designated response roles if their assistance is needed (Attachment III).
- h) If Public Affairs – Media Relations assistance is needed, contact Power Delivery Environmental, Health and Safety.
- i) Ensure the incident is recorded in the Environmental Incident Database.

4. Power Delivery, EHS Field Services Personnel (See Attachment II)

- a) Contact State and Federal environmental agencies as required (Attachment III).
- b) Provide assistance and guidelines in spill response and in revising SPCC plans.
- c) Contact Public Affairs – Media Relations for community relations and media assistance as required.

Response Procedures and Assistance

Supplies to be used to assist in spill response are listed in Attachment IV. Additional supplies and equipment can be obtained from the Toddville, Wenwood and Fairfax warehouses or at the nearest Duke Energy Generating Station.

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NOTE: Cleanup/disposal of contaminated materials is handled by corporate personnel trained in proper techniques. Power Delivery, EHS Field Services personnel can be contacted to initiate material disposal.

Guidance for spill response of various areas is given below:

1. On Ground

- a) Build dams of earth and/or absorbent materials to insure that oil does not enter drainage system, unless system is designed to handle spill.
- b) Absorb as much as oil as possible with absorbent materials. Dispose of materials in 55 gallon drums and send to Toddville Warehouse for proper disposal.
- c) Replenish materials used during cleanup.
- d) Complete the Environmental Incident Database.

2. Yard Drainage System

- a) Where possible, prevent oil from reaching yard drains.
- b) If oil gets into a facility drainage system not designed to handle a spill, use absorbent materials or sealing devices at the drain discharge points. Dispose of materials in 55 gallon drums and send to Toddville Warehouse for proper disposal.
- c) Complete the Environmental Incident Database.

3. Aboveground with Containment

- a) Pump or recover as much oil as possible and place in an oil storage container labeled "used oil".
- b) Remove residual oil film using oil absorbent material. Dispose of materials in a 55 gallon drum and send to Toddville Warehouse for proper disposal.
- c) Remove and replace contaminated soil and/or gravel.
- d) Replenish materials used during cleanup.
- e) Complete the Environmental Incident Database.

4. Building Floors and Surface Pads

- a) Build dams with absorbent materials to prevent oil from entering drains and cover drains with a sealing mat.
- b) Apply absorbent materials working from dam to oil source spill.
- c) Dispose of used materials in 55 gallon drums and send to Toddville Warehouse for proper disposal.
- d) Replenish materials used during cleanup.
- e) Complete the Environmental Incident Database.

5. Surface Waters

- a) Where oil discharges into any surface water, isolate the spill in the smallest area possible with an oil boom.
- b) Cleanup spill with oil absorbent materials.
- c) Dispose of used materials in 55 gallon drums and send to Toddville Warehouse for proper disposal.

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- d) Replenish materials used during cleanup.
- e) Complete the Environmental Incident Database.

Reporting Guidelines

1. Notify Power Delivery EHS Field Services

All oil spills shall be reported.

Power Delivery, EHS Field Services Person (Attachment II) at 1-800-527-3853.

V. Site Monitoring, Inspections, Security, and Training

Site Monitoring

Electrical substations are uniquely monitored to allow for rapid notification in the event of some type of problem. Duke Energy uses an Energy Management System (EMS) as a mechanism for notification of a problem with a piece of electrical equipment in many of its electrical substations. The system is a real-time system that automatically alarms to Duke's Transmission Control Center (TCC), which is staffed continuously. The EMS is in place on most Duke's large substations. At the smaller substations, not connected to EMS, customers provide prompt notification of problems. A problem with a piece of electrical equipment, such as a loss of mineral oil from the container, can cause a loss of power to customers which will trigger immediate notification. Upon notification of a problem via customer contact or EMS, an immediate request to the operating area is transmitted. Each operating area has a trained operator continuously on call, located such that, on average, each substation can be reached for initial response within 30 minutes. [During major system outages, typically extreme weather related, response times may exceed 30 minutes.] The operator is then able to initiate response procedures as previously discussed and as outlined in Attachment VII in the Spill Contingency Plan.

Inspections

Regulations of 40 CFR 112.7(e) requires the owner/operator to conduct self-inspections and provide written procedures and records of inspections. Inspections will be consistent with operating procedures. Operators will be responsible for recording information on each of the areas inspected. Inspection sheets shall include the name/initials of the inspectors and the date of the inspection. Each inspection shall include but is not limited to the following:

- Oil Containers and Oil-Filled Electrical Equipment for leaks, foundation integrity, and corrosion of the container
- Secondary Containment Systems for presence of excessive oil stains or sheen on any entrapped fluids, for proper position and security of any valving which might be part of the containment system, for fluid levels

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which might be present, and appropriate depth/condition of the gravel ground cover where it is considered to be an integral part of the secondary containment system.

- When fluid is present in the secondary containment system, the inspector shall closely inspect the fluid for presence of oil. Finding none, the inspector shall open appropriate valves to release any captured fluid. Prior to leaving the site, the inspector shall re-inspect the Secondary Containment System and properly close and secure any valves which had been opened.

EHS Field Services personnel inspect each distribution substation on a **quarterly basis**. During the inspection, personnel check for leaks or spills (including containment areas) and corrects as necessary. All inspection records and records of containment drainage events are recorded electronically and must be maintained for a minimum of three years.

Facility Security Measures

The facility has adequate lighting available to assist in the discovery of spills and clean up of spills.

Drain valves for tanks and dike areas have adequate security measures to ensure they remain closed, when appropriate.

The fence surrounding the substation is locked except when authorized employees are present.

Training Programs

SPCC training is required for all personnel utilizing the site and is to be conducted at least once a year. Periodic oil spill drills may also be performed. Training exercises should stress spill PREVENTION rather than CLEANUP as the preferred action.

Personnel are trained in the operation and maintenance of equipment to prevent oil discharges and in applicable oil pollution control rules and regulations.

Training Records are maintained for all trained personnel. Record of training is maintained in a Corporate Data base for a minimum period of five years.

Spill Prevention Control and Countermeasures Plan (SPCC)

Attachment I Loading/Unloading Guidelines

Procedures for tank/truck loading/unloading operations for the facility follow applicable Department of Transportation regulations.

The following guidelines should be followed when oil is loaded/unloaded at this facility.

1. Personnel shall attend the loading/unloading operations at all times and shall remain in close proximity when transfers occur.
2. The level in the facility's tank or container shall be measured to gauge the volume of oil to be added/removed.
3. No smoking or open flames are allowed in the area of the loading/unloading.
4. Prior to starting and during all transfer operations, wheel chocks shall be in place to prevent premature vehicle departure.
5. Personnel shall be made aware of the general SPCC Plan and shall be trained on appropriate response actions in the event of a spill.
6. During transfer, proper electrical ground and transfer connections are secure before starting transfer. Observe transfer operations for any leaks or spillage to cease transfer if necessary.
7. Following transfer, disconnect hoses, remove electrical grounding, check and secure all outlets including access doors on top of the tanker and the lowermost drain.
8. Make necessary adjustments to facility tanks and equipment affected by the transfer to ensure proper spill prevention measures are resumed.
9. Overall site containment provisions as identified substation equipment is the applicable means to contain a spill during loading/unloading operations.

Spill Prevention Control and Countermeasures Plan (SPCC)

Attachment II Spill Coordinators

The primary **Spill Coordinator** will be the Power Delivery, EHS Field Services person on call. Use the following procedure to report a spill:

1. Call **1-800-527-3853**, which is the **Duke Energy Automated Spill Reporting Hotline**.
2. The EHS Field Services person on call will answer the phone or you will be asked to leave a message.
3. Provide your name, phone number, location and station name where spill is located, how much oil is spilled and what type of oil, and if it is subject to reaching water..
4. If you have to leave a message the Power Delivery, EHS Field Services person will return your call.
5. ***The above reporting procedure is to be used 24 hours a day, seven days a week.***

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Attachment III Emergency Response Contacts

Contacts to be made by Power Delivery Environmental, Health and Safety Field Services

National Response Center	800-424-8802
NCDENR Emergency	800-858-0368
SCDHEC Emergency	888-481-0125
EPA Region IV Emergency	404-562-8700
Power Delivery Remediation Contract Management	800-738-8567
LEPC (as needed)	
External Response Contractors (as needed)	see Spill Contingency Plan

If immediate fire and/or medical emergency help are needed, dial **911**.

Spill Prevention Control and Countermeasures Plan (SPCC)**Attachment IV Spill Cleanup Supplies and Equipment**

The following table lists the cleanup supplies that should be available at the Toddville, Wenwood or Fairfax Warehouses.

Material	Approximate Quantity
Oil Dry	50 lb. Bags
Oil Absorbent - Sheets	Boxes - Sheets 18" X 18"
Oil Absorbent - Rolls	Roll - Roll 35 " X 200'
55 Gallon Drums	Each
Cotton Rags	Pounds
Yellow Barrier Tape	Roll

NOTE: If oil boom boats or additional supplies are required, the nearest Duke Energy, Fossil, Nuclear or Hydro station may be able to assist – see Spill Contingency Plan in Attachment VII for additional information.

Spill Prevention Control and Countermeasures Plan (SPCC)**Attachment V Certification of Substantial Harm Determination Form**

- | | Yes | No |
|--|-----|----|
| 1. Does the facility have a maximum storage capacity greater than or equal to 42,000 gallons and do the operations include over water transfers of oil to and from vessels? | | X |
| 2. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and is the facility without secondary containment for each above ground storage area sufficiently large enough to contain the capacity of the largest above ground storage tank within the storage area? | | X |
| 3. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and is the facility located a distance such that discharge from the facility could cause injury to an environmentally sensitive area? | | X |
| 4. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake? | | X |
| 5. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and within the past five years, has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons? | | X |

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate and complete.

Harry D. Erwin
(signature)

Sr Transmission Engineer
(title)
3/28/2012
(date)

Spill Prevention Control and Countermeasures Plan (SPCC)

Attachment VI Substations covered under this SPCC Plan.

Gastonia/ areas 40&42

		GASTONIA			
STA1330	ACREROCK TIE	DALLAS	NC	NC036-GASTON	40
STA4926	Airline Management LLC Rex PI	RANLO	NC	NC036-GASTON	40
STA4928	AMER & EFIRD FINISHING PI 51	GASTONIA	NC	NC036-GASTON	40
STA3859	AMER & EFIRD Gastonia PI Del 1	GASTONIA	NC	NC036-GASTON	40
STA3033	AMER & EFIRD Gastonia PL Del2	GASTONIA	NC	NC036-GASTON	40
STA4921	AMER & EFIRD PINKNEY PL 56	GASTONIA	NC	NC036-GASTON	40
STA3885	American Metal Fabricators Inc	RANLO	NC	NC036-GASTON	40
STA3068	ARMTEX GASTONIA PL	GASTONIA	NC	NC036-GASTON	40
STA3070	ARMTEX SS	GASTONIA	NC	NC036-GASTON	40
STA3187	Bradington Young inc Del 1	Cherryville	NC	NC036-GASTON	40
STA3120	BELMONT CONVERTING CO	BELMONT	NC	NC036-GASTON	40
STA1082	BELMONT TIE	BELMONT	NC	NC036-GASTON	40
STA4142	BENMAR PROPERTIES LLC	Bessemer City	NC	NC036-GASTON	40
STA3132	BESSEMER CITY RET	Bessemer City	NC	NC036-GASTON	40
STA3134	BETHEL RET	CLOVER	SC	SC046-YORK	40
STA3301	CAROLINA M PL 21	RANLO	NC	NC036-GASTON	40
STA3302	CAROLINA M PL 22	RANLO	NC	NC036-GASTON	40
STA3317	CARVER ST RET	CLOVER	SC	SC046-YORK	40
STA4983	CBM CO INC	Bessemer City	NC	NC036-GASTON	40
STA3365	CHAVIS RENTAL CORP	GASTONIA	NC	NC036-GASTON	40
STA3372	CHERRYVILLE MAIN	CHERRYVILLE	NC	NC036-GASTON	40
STA3373	CHERRYVILLE RET	CHERRYVILLE	NC	NC036-GASTON	40
STA1307	CHERRYVILLE TIE	CHERRYVILLE	NC	NC036-GASTON	40
STA1564	CLOVER TIE	CLOVER	SC	SC046-YORK	40
STA1301	COLONIAL PIPE GASTONIA	GASTONIA	NC	NC036-GASTON	40
STA1300	COLONIAL PIPE GASTONIA Tap	GASTONIA	NC	NC036-GASTON	40
STA3080	CONRAD PAGORZELSKI	LOWELL	NC	NC036-GASTON	40
STA3522	DALLAS CITY DEL 2	DALLAS	NC	NC036-GASTON	40
STA3576	DAWSON TEXTILE MACHINERY	CHERRYVILLE	NC	NC036-GASTON	40
STA4073	DICKSON II&III VISION Hosiery	BELMONT	NC	NC036-GASTON	40
STA1329	DIXIE TIE	GASTONIA	NC	NC036-GASTON	40
STA3633	EASCO HAND TOOLS INC	GASTONIA	NC	NC036-GASTON	40
STA3711	Firestone Fibers Gastonia S3	GASTONIA	NC	NC036-GASTON	40
STA3708	Firestone T&R GastoniaPL Sta1	GASTONIA	NC	NC036-GASTON	40
STA3717	FLAY RET	VALE	NC	NC055-LINCOLN	40
STA5165	FMC Corp Lith Div Bess City	Bessemer City	NC	NC036-GASTON	40
STA3751	GALEY & LORD INC FLINT PL	GASTONIA	NC	NC036-GASTON	40

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STA1516	GASTONIA CITY DEL 10	GASTONIA	NC	NC036-GASTON	40
STA1565	GASTONIA CITY DEL 11	GASTONIA	NC	NC036-GASTON	40
STA1603	GASTONIA CITY DEL 12	GASTONIA	NC	NC036-GASTON	40
STA1733	GASTONIA CITY DEL 14	GASTONIA	NC	NC036-GASTON	40
STA3764	GASTONIA CITY DEL 2	GASTONIA	NC	NC036-GASTON	40
STA1433	GASTONIA CITY DEL 6	GASTONIA	NC	NC036-GASTON	40
STA3769	GASTONIA CITY DEL 7	GASTONIA	NC	NC036-GASTON	40
STA1489	GASTONIA CITY DEL 9	GASTONIA	NC	NC036-GASTON	40
STA1179	GASTONIA JCT TIE	GASTONIA	NC	NC036-GASTON	40
STA1204	GASTONIA MN	GASTONIA	NC	NC036-GASTON	40
STA5077	H & H DISTRIBUTORS SERVICE	GASTONIA	NC	NC036-GASTON	40
STA3384	HANESBRANDS INC	GASTONIA	NC	NC036-GASTON	40
STA3878	HARDEN RET	HARDINS	NC	NC036-GASTON	40
STA3882	HARTFORD AVE RET	Bessemer City	NC	NC036-GASTON	40
STA3916	HIGH SHOALS RET	HIGH SHOALS	NC	NC036-GASTON	40
STA4566	INDUSTRIAL FABRICATORS Inc	GASTONIA	NC	NC036-GASTON	40
STA3718	KEMIRON ATLANTIC INC	GASTONIA	NC	NC036-GASTON	40
STA4009	LAKEVIEW SS	CRAMERTON	NC	NC036-GASTON	40
STA3305	LARRY D GRANT	LINCOLNTON	NC	NC055-LINCOLN	40
STA4929	LEVIE INDUSTRIES LLC	GASTONIA	NC	NC036-GASTON	40
STA1569	LINCOLNTON CITY	LINCOLNTON	NC	NC055-LINCOLN	40
STA1107	LINCOLNTON TIE	LINCOLNTON	NC	NC055-LINCOLN	40
STA1206	MAYWORTH RET	BELMONT	NC	NC036-GASTON	40
STA1203	MCADENVILLE JCT TIE	MCADENVILLE	NC	NC036-GASTON	40
STA4925	MERIDIAN IND REX PL	RANLO	NC	NC036-GASTON	40
STA3074	MERIDIAN INDUSTRIES INC	Bessemer City	NC	NC036-GASTON	40
STA4313	MODENA SS	GASTONIA	NC	NC036-GASTON	40
STA4315	MOHICAN M INC	LINCOLNTON	NC	NC055-LINCOLN	40
STA4244	MOTZ AVE SS	LINCOLNTON	NC	NC055-LINCOLN	40
STA1643	NEW HOPE RET	GASTONIA	NC	NC036-GASTON	40
STA5299	NORTH LINCOLN RET	LINCOLNTON	NC	NC055-LINCOLN	40
STA3183	NORTHEAST TEXTILES INC	Bowling Green	SC	SC046-YORK	40
STA4471	PARKDALE AMERICA LLC PL 9	BELMONT	NC	NC036-GASTON	40
STA4466	PARKDALE AMERICA LLC PL 15	BELMONT	NC	NC036-GASTON	40
STA4467	PARKDALE AMERICA LLC PL 17	BELMONT	NC	NC036-GASTON	40
STA4470	PARKDALE M PL 8	BELMONT	NC	NC036-GASTON	40
STA4464	PARKDALE M PL 10	GASTONIA	NC	NC036-GASTON	40
STA4473	PARKDALE M PL 41	GASTONIA	NC	NC036-GASTON	40
STA4473	PARKDALE M STA 1	GASTONIA	NC	NC036-GASTON	40
STA1618	PEACOCK TIE	GASTONIA	NC	NC036-GASTON	40
STA4508	Pharr Yarns Clover Div Pl 6&7	CLOVER	SC	SC046-YORK	40
TA3510	Pharr R Yarns Crescent Spinning	BELMONT	NC	NC036-GASTON	40
STA4509	PHARR YARNS IMPERIAL DIV	BELMONT	NC	NC036-GASTON	40
STA1628	Pharr Yarns Inc Space Dye	MCADENVILLE	NC	NC036-GASTON	40
STA4510	PHARR YARNS PL 1,2,3	MCADENVILLE	NC	NC036-GASTON	40
STA4511	PHARR YARNS PL 4 & 5	MCADENVILLE	NC	NC036-GASTON	40
STA4866	PHARR YARNS PL 9 & 23	MCADENVILLE	NC	NC036-GASTON	40
STA4512	Pharr Yarns Spencer Mountain	RANLO	NC	NC036-GASTON	40

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STA4551	PLANTATION PIPE Lowell Pump	LOWELL	NC	NC036-GASTON	40
STA3796	Radispandex Corp Gastonia Pl	GASTONIA	NC	NC036-GASTON	40
STA1649	RIVER HILLS RET	CLOVER	SC	SC046-YORK	40
STA4783	ROYSTER P&M WAREHOUSE	LINCOLN	NC	NC055-LINCOLN	40
STA3742	RSI HOME PRODUCTS INC	LINCOLN	NC	NC055-LINCOLN	40
STA1695	RUTHERFORD EMC DEL 20	LINCOLN	NC	NC055-LINCOLN	40
STA4688	S GASTONIA RET	GASTONIA	NC	NC036-GASTON	40
STA4927	SEMINOLE SS	GASTONIA	NC	NC036-GASTON	40
STA4778	SOUTHERN IND BRONX	CLOVER	SC	SC046-YORK	40
STA4513	SPARTAN DYERS INC Belmont	BELMONT	NC	NC036-GASTON	40
STA3551	SPINNAKER YARN MILLS	DALLAS	NC	NC036-GASTON	40
STA4868	STOWE RL CHRONICLE PL	BELMONT	NC	NC036-GASTON	40
STA4869	STOWE RL EAGLE YARN M	BELMONT	NC	NC036-GASTON	40
STA4870	STOWE RL HELMS PL	BELMONT	NC	NC036-GASTON	40
STA4837	STOWE RL MILLS MAJESTIC PL	BELMONT	NC	NC036-GASTON	40
STA4871	STOWE RL NATIONAL PL	BELMONT	NC	NC036-GASTON	40
STA4873	STOWE RL STOWE Spinning Pl	BELMONT	NC	NC036-GASTON	40
STA4900	TEXTILE PIECE DYEING CO	LINCOLN	NC	NC055-LINCOLN	40
STA4933	TIMKEN CO LINCOLN PL 12	LINCOLN	NC	NC055-LINCOLN	40
STA1562	TIMKEN CO Lincoln PL12 TAP	LINCOLN	NC	NC055-LINCOLN	40
STA3410	Tuscarora Yarns Inc Clover	CLOVER	SC	SC046-YORK	40
STA1615	W GASTONIA RET	GASTONIA	NC	NC036-GASTON	40
STA3269	Warehouse Storage LLC Pl 23	RANLO	NC	NC036-GASTON	40
STA4468	Warehouse Storage Lowell	LOWELL	NC	NC036-GASTON	40
STA4924	Warehouse Storage Solutions	BELMONT	NC	NC036-GASTON	40
STA5106	WIX CORP ALLEN PL	GASTONIA	NC	NC036-GASTON	40
STA5107	WIX CORP DIXON PL	GASTONIA	NC	NC036-GASTON	40
STA5134	YORK E C DEL 14	BETHANY	SC	SC046-YORK	40
		SHELBY			
STA4604	BALDOR ELECTRIC	Kings Mountain	NC	NC023-CLEVELAND	42
STA1625	BELWOOD RET	SHELBY	NC	NC023-CLEVELAND	42
STA3130	BERNHARDT FURN CO PL 9	SHELBY	NC	NC023-CLEVELAND	42
STA3149	BLANTON RET	SHELBY	NC	NC023-CLEVELAND	42
STA3238	BUFFALO CREEK RET	SHELBY	NC	NC023-CLEVELAND	42
STA3293	CANSLER SS	Kings Mountain	NC	NC023-CLEVELAND	42
STA3666	CAPITAL FUNDS INC	SHELBY	NC	NC023-CLEVELAND	42
STA4440	CAPITAL FUNDS INC DEL 1	SHELBY	NC	NC023-CLEVELAND	42
STA3519	CHEMETALL FOOTE Corp	Kings Mountain	NC	NC023-CLEVELAND	42
STA2011	CHRISTOPHER ROAD RET	SHELBY	NC	NC023-CLEVELAND	42
STA2677	CLEARWATER PAPER CORP	SHELBY	NC	NC023-CLEVELAND	42
STA2680	COUNTRYSIDE RET	Kings Mountain	NC	NC023-CLEVELAND	42
STA5175	CROWDERS CREEK RET	Kings Mountain	NC	NC023-CLEVELAND	42
STA3518	Cyprus-Foote Mineral Co Del 1	Kings Mountain	NC	NC023-CLEVELAND	42
STA3556	DICEY FABRICS	SHELBY	NC	NC023-CLEVELAND	42

Spill Prevention Control and Countermeasures Plan (SPCC)

Attachment VII - Spill Contingency Plan

Spill Prevention Control and Countermeasures Plan (SPCC)**Power Delivery (PD) Oil Spill Contingency Plan (OSCP)****PD Management Approval**

This OSCP is provided as a portion of the overall SPCC Plan for Duke Energy Power Delivery facilities. As provided on the SPCC Plan cover, management's approval of the Plan includes the approval of this OSCP and Duke Energy's commitment to provide the workforce, equipment and materials to expeditiously control and remove any quantity of oil discharged that may be harmful.

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Power Delivery Oil Spill Contingency Plan (OSCP)

I. Purpose and Scope

The purpose of this Oil Spill Contingency Plan (OSCP) is to document resources, roles and responsibilities, and the process to be used when responding to oil spills in and around applicable Duke Energy - Power Delivery (PD) substations and other facilities as designated by Duke Energy. The OSCP is to be utilized in conjunction with site specific SPCC (Spill Prevention, Control and Countermeasure) Plans.

The OSCP is required (40 CFR 112.7 (d)) when 1) it is determined that secondary containment is impracticable or 2) as allowed under the SPCC rules to address potential spills from oil-filled electrical equipment in lieu of secondary containment at facilities required to have a SPCC plan. The OSCP is developed for the Duke Energy substations as a response tool to prevent oil spills at an electrical substation from ever reaching navigable waters of the U.S.

II. Coordination with Site SPCC Plans

All Power Delivery sites that store greater than 1,320 gallons of oil have SPCC Plans in place. Secondary containment structures or measures to prevent potential spills from reaching navigable waters are in place at many sites. Some sites due to 1) their proximity to water, 2) impracticability of secondary containment structures or 3) other factors, may not have full containment measures in place. For these facilities and for all Power Delivery facilities where a spill could occur, this Oil Spill Contingency Plan is in place to provide guidance to company resources to expeditiously and appropriately respond to an oil spill.

SPCC Plans for the Power Delivery substation sites are maintained at their nearest appropriate regional office. In the event of a spill from a particular substation, information is available in the "Site Specific Information" portion of the SPCC Plan which serves as Attachment VI to the General SPCC Plan and provides specific information pertinent to the individual substation. Information available in the "Site Specific Information" includes:

1. Location and Address information for the site.
2. An evaluation of the site's spill potential.
3. A description of the projected flow direction in the event of a spill.
4. A site sketch showing the arrangement of the site and likely runoff direction and location of nearest receptor, where applicable.
5. A listing of the oil-containing equipment and the volume of oil stored.

In the event of a spill, the site specific plan should be referred to in order to provide guidance to those responding. The information will assist the response by identifying likely spill flow directions and where resources should be most immediately deployed in order to prevent off-site releases and to protect potential receiving waters.

III. Personnel Responsibilities (40 CFR 109.5 (a) & 40 CFR 109.5(d)(1-2))

A current list of names, phone numbers and locations of personnel involved in oil spill response is located in Attachment 1. Those individuals and their contact information will be updated as required to remain current. The following describes specific responsibilities associated with personnel listed in Attachment 1.

PD Regional Service Technicians

In the event of a spill, initial notification is typically via the Transmission Control Center or customer notification. Service Technicians are on-call continuously and as discussed in the SPCC Plan are located

Power Delivery Oil Spill Contingency Plan (OSCP)

throughout the PD service area such that any substation site is, on system average, reached within 30 minutes of the call. Upon reaching the site, the Service Technician or other first responder will perform the functions as identified under Section VI: **Spill Response Procedure** for the First Person on the Scene of an Oil Spill.

Environment, Health and Safety (EHS) Field Support Manager

The EHS Field Support Manager is responsible for the overall management of EHS Contacts and the EHS Senior Project Coordinator (Remediation). These responsibilities include:

1. Ensuring that EHS staff are properly trained on spill response procedures and protocols,
2. Ensuring that EHS staff are properly equipped to respond to all oil spills consistent with the types and amounts of oil present in oil filled equipment
3. Ensuring that sufficient EHS staffing is available 24 hours/day, 365 days/year to manage all oil spills consistent with the types and amounts of oil present in oil filled equipment
4. Ensuring that arrangements with outside oil spill response organizations (i.e., contractors) are established for situations beyond the capabilities of EHS resources
5. Ensuring that contractors understand all EHS specifications associated with oil spill clean-ups
6. Ensuring all oil spills are properly cleaned-up
7. Ensuring the site is restored to pre-spill conditions
8. Ensuring that all spill clean-up material is properly managed
9. Ensuring that all spills are properly documented and reported to the appropriate authorities.

PD EHS Regions, Areas, Counties and Operations Center Contacts

EHS Contacts are responsible for:

1. Providing 24 hour/day, 365 days/year spill response coverage for PD
2. Responding promptly to all spills reported to the Spill Report Hotline
3. Assessing the severity of oil spills
4. Contacting the PD EHS Remediation Contract Supervisor when there is a need to clean-up an oil spill
5. Ensuring all oil spills are properly cleaned-up
6. Ensuring the site is restored to pre-spill conditions
7. Ensuring that all spill clean-up material is properly managed
8. Ensuring that all spills are properly documented and reported to the appropriate authorities.

EHS Senior Project Coordinator (Remediation)

The EHS Senior Project Coordinator is responsible for the oversight of the EHS Remediation activities and/or external remediation resources. These responsibilities include:

1. Directing the clean-up of oil spills
2. Ensuring that resources are available 24 hours/day, 365 days/year to respond to oil spills
3. Ensuring that resources are properly trained
4. Ensuring that the resource team is properly equipped to respond to all oil spills consistent with the types and amounts of oil present in PD oil filled equipment
5. Ensuring that all spill equipment is maintained in proper condition to ensure rapid and efficient mitigation of oil spills consistent with the types and amounts of oil spilled
6. Ensuring that arrangements with outside oil spill response organizations (i.e., contractors) are established for situations beyond the capabilities of internal response resources
7. Ensuring that contractors understand all EHS specifications associated with oil spill clean-ups

Power Delivery Oil Spill Contingency Plan (OSCP)

8. Ensuring all oil spills are properly cleaned-up
9. Ensuring the site is restored to pre-spill conditions
10. Ensuring that all spill clean-up material is properly managed
11. Ensuring that all spills are properly documented and reported to the appropriate authorities.

Spill Response Team/Contractors

Spill Response Team/Contractors are responsible for

1. Ensuring that team members are available 24 hours/day, 365 days/year to respond to oil spills if called upon by EHS
2. Ensuring that employees are properly trained and understand all specific EHS requirements associated with oil spill response
3. Ensuring that the team is properly equipped to respond to all oil spills consistent with the types and amounts of oil present in oil filled equipment
4. Ensuring that all spill equipment is maintained in proper condition to ensure rapid and efficient mitigation of oil spills consistent with the types and amounts of oil spilled
5. Ensuring all oil spills are properly cleaned-up per EHS specifications
6. Ensuring the site is restored to pre-spill conditions per EHS specifications
7. Ensuring that all spill clean-up material is properly managed per EHS specifications
8. Ensuring that all spills are properly documented and reported to the appropriate authorities per EHS specifications.

Hydro Utility Crews

Hydro Utility Crews are responsible for:

1. Ensuring that team members are available 24 hours/day, 365 days/year to respond to oil spills to water if called upon by EHS
2. Ensuring that employees are properly trained and understand all specific EHS requirements associated with oil spills to water
3. Ensuring that the team is properly equipped to respond to all oil spills consistent with the types and amounts of oil present in oil filled equipment
4. Ensuring that all spill equipment is maintained in proper condition to ensure rapid and efficient mitigation of oil spills consistent with the types and amounts of oil spilled
5. Ensuring all oil spills are properly cleaned-up per EHS specifications
6. Ensuring the site is restored to pre-spill conditions per EHS specifications
7. Ensuring that all spill clean-up material is properly managed per EHS specifications
8. Ensuring that all spills are properly documented and reported to the appropriate authorities per EHS specifications.

Power Delivery Oil Spill Contingency Plan (OSCP)

IV. Communication Process Overview for Spill Response (40 CFR 109.5 (b))

All oil spills are to be immediately reported to the:
24-hour spill reporting hot line, 1-800-527-3853.

The EHS Contact duty person will answer or the caller will be instructed to leave specific information regarding the spill (location of spill, time spill discovered, approximate magnitude of spill, proximity of spill to drains or water sources, type of oil).

The EHS Contact duty person, based on further discussion, will determine the level of oil spill response required. If necessary, the EHS Contact duty person will go to the spill site for further observation and evaluation. All oil spills are documented in the EHS Incident Database located on the Portal. The EHS Incident Database includes offsite agency phone numbers for making the required notifications to regulatory agencies.

The PD EHS Contact duty person will contact the EHS Senior Project Coordinator (remediation) if the spill is determined to be severe enough to warrant additional resources. EHS Senior Project Coordinator can be contacted by dialing, 828-323-2846 (office) or 828-612-1448 (cell).

The EHS Senior Project Coordinator will determine the need for additional spill response resources (internal or external) depending on the severity of the spill. For oil spills to water the Hydro utility Crews may be called for assistance.

V. Resources (Personnel, Equipment and Materials) (40 CFR 109.5 (c))

Duke Energy Management is fully committed to the protection of the environment and public health and safety. Personnel, equipment and materials for mitigating oil spills are located throughout the Duke Energy Service Area. Attachment VI-2 (40 CFR 109.5 (c)(1)) depicts the Duke Energy Service Area and the area breakdown within Power Delivery. Attachment VI-3 (40 CFR 109.5 (c)(1)) is a listing of locations and contact information for spill clean-up supplies located throughout the service area as shown on Attachment VI-2.

Spills beyond the capabilities of PD EHS resources are mitigated through emergency spill contractors such as Haz-Mat, A & D Environmental, and Zebra Environmental. Arrangements are in place with Hilco Trucking, Boss and Blue Max Trucking and others for hauling spill clean-up material to approved disposal facilities.

A& D Environmental, HAZ MAT, and Zebra Environmental can be contacted as follows:

A& D Environmental and Industrial Services, Inc.

Contract # 880

Phone: 1-800-434-7750

- or -

HAZ MAT

PO # 4542

Phone: 704-332-5600

-or -

Zebra Environmental

PO # 4573

Phone: 336-841-5276

Power Delivery Oil Spill Contingency Plan (OSCP)

Personnel

A staff of eleven PD EHS employees (refer to Attachment VI-1) is available 24 hours/day, 365 days/year to respond to oil spills. Additional employees from the Hydro Utility Organizations are available to assist with spills to water within the Duke Energy service territory. EHS has also negotiated agreements with vendors and suppliers to provide additional resources (personnel, equipment and materials) for spill response should the conditions warrant.

Materials & Equipment

Please refer to Attachment VI-3 for a listing of spill clean-up material locations available in the Duke Energy Service Area.

Please refer to Attachment VI-4 for a listing of available EHS Remediation and Hydro Utility Crew spill clean-up material and equipment.

VI. Spill Response Procedure (40 CFR 109.5 (b)(3) & 40 CFR 109.5 (c)(3)(d))

Identification/Notification of Spill-First Person on Scene of Oil Spill

1. Do not come in contact with the oil.
2. Place absorbent material around the spill.
3. Construct devices such as earthen dams to prevent the spread of the spill. Prevent spills from entering storm drains, catch basins or other conveyances that would connect with lakes, streams, rivers and etc.
4. Determine which piece of electrical equipment caused the spill.
5. Once the spill is secured, determine if the oil is PCB (polychlorinated biphenyls):
 - Note:** Transformer manufacture date can no longer be used to verify PCB content.
 - Look for a green dot on the equipment (green dot indicates PCB < 50 PPM (i.e., non-PCB)).
 - Check the nameplate for PCB concentration.
 - Check EMAX equipment records for PCB content.
 - Run a Clor-N-Oil. Clor-N-Oil tests can give a false positive indication. False positives can be caused by various environmental conditions or caused by compounds other than PCBs.
 - Note:** If the Clor-N-Oil test is a positive result, perform a second Clor-N-Oil test. If the second test is positive, contact PD EHS Contact. The PD EHS Contact will obtain a sample of the oil and transport the sample to the Environmental Center at McGuire or local accredited lab where more accurate analysis can be obtained.
 - Note:** If no information is available for PCB determination, assume the spilled oil is PCB contaminated.
6. Call 1-800-527-3853 or the local EHS Contact (Attachment VI-1) to report the oil spill. Provide as much detailed information regarding the spill as possible. Pay particular attention to areas where mineral oil has entered or is likely to enter a storm drain, or is likely to leave the site and (consider weather conditions which may cause the oil to reach water) identify all areas of oil accumulation.
7. The PD EHS Contact duty person may return the call and discuss the spill with you and will determine the level of oil spill response required. If necessary, the PD EHS Contact duty person will go to the spill site for further observation or assistance.

Power Delivery Oil Spill Contingency Plan (OSCP)

8. Complete a "Field Guide for Spill Reporting and Response" form and provide the information to PD EHS Contact for spill documentation in the PD Incident Database located on the Portal.

Response to Oil Spill- EHS Contact

1. The EHS Contact will make a determination on the oil spill response level based on information provided from the individual reporting the spill. In some cases the EHS Contact will make an on-site evaluation of the spill to determine the level of oil spill response needed.
2. If the spill can easily be cleaned-up, and is non-PCB, the EHS Contact may allow the individual/team identifying the spill to clean-up the spill.

Note: Only trained and qualified personnel should clean-up PCB oil spills or handle PCB materials.

3. The EHS Contact will notify the EHS Senior Project Coordinator of the spill when the spill is beyond the capabilities of the individual/team discovering the spill. The EHS Contact may also notify the EHS Senior Project Coordinator if the spill requires the services of an approved spill remediation contractor.

Documenting and Reporting Oil Spills to Regulatory Agencies

1. All PD related oil spills are documented in the PD Incident Reporting feature located under the EH&S Compliance Tool on the portal.
2. The PD Incident Reporting feature provides a list of regulatory agencies that shall be notified if the oil spill is considered to be reportable under federal, state or local regulations or agreements. A list of regulatory contact phone numbers is also included in the PD Incident Reporting feature.

Attachment VI-1

Billy Goodman – Manager
(704) 638-4015 office

(b) (6) cell
(b) (6) pager

Region, Areas, Counties and Operation Centers		PD-EHS Contact
Southwest Area C & M, Nantahala – Distribution and Transmission		Mike Bingham
Counties in NC: Graham, Cherokee, Swain, Macon, Jackson		Franklin Op. Center
Operation Centers: Robbinsville, Franklin, Dillsboro, Cashiers		828-369-4567 (O) (b) (6) (C)
Southwest Area C & M, (minus Nantahala) - Distribution		David Garner
Counties in NC: Henderson, Transylvania, Polk, Rutherford		Spartanburg Op. Center
Counties in SC: Cherokee, Spartanburg, Union		864-948-5578 (O)
Operation Centers: Hendersonville, Brevard, Spindale, Spartanburg, Duncan Call and Dispatch Ctr.		(b) (6) (b) (6)
Southern Area C&M - Distribution		Tommy Keaton
Counties in SC: Oconee, Pickens, Anderson, Greenville Laurens, Newberry, Greenwood, part of Abbeville		Anderson Op. Center
Operation Centers: Travelers Rest, Wenwood, Simpsonville, Clemson, Anderson, Greenwood		864-260-6036 (O)
Oconee Garage		(b) (6) (C) (b) (6) (P)
Southern Region C & M, (minus Nantahala) – Transmission		Sherry Gillespie
Includes Southwest Area C & M, (minus Nantahala) and Southern Area C&M		Wenwood
S.C. - Fleet Services		864-234-4026 (O)
Wenwood Garage and Distribution Center		(b) (6) (C) (P)
Central East Area C&M - Distribution		Scott Whitley
Counties in NC: east part of Mecklenburg, Union, Cabarrus, Stanly, Rowan, south part of Iredell and Davidson		Lancaster Op. Center
Operation Centers: Matthews, Newell, Kannapolis, Mooresville, Salisbury		803-283-5001 (O)
Customer Contact Center		(b) (6) (C)
Catawba Garage		(b) (6) (P)
Central West Area C&M - Distribution		Steve Hemby
Counties in NC: west part of Mecklenburg, Gaston, Lincoln, Cleveland, Catawba, Alexander, Burke, Caldwell, McDowell		Little Rock Op. Center
County in SC: York, Chester, Lancaster		704-382-3708 (O)
Operation Centers: Little Rock, Gastonia, Shelby, Fort Mill, York, Chester, Lancaster, Hickory, Marion		(b) (6) (C) (b) (6) (P)
Little Rock Garage and Little Rock Call and Dispatch Center		

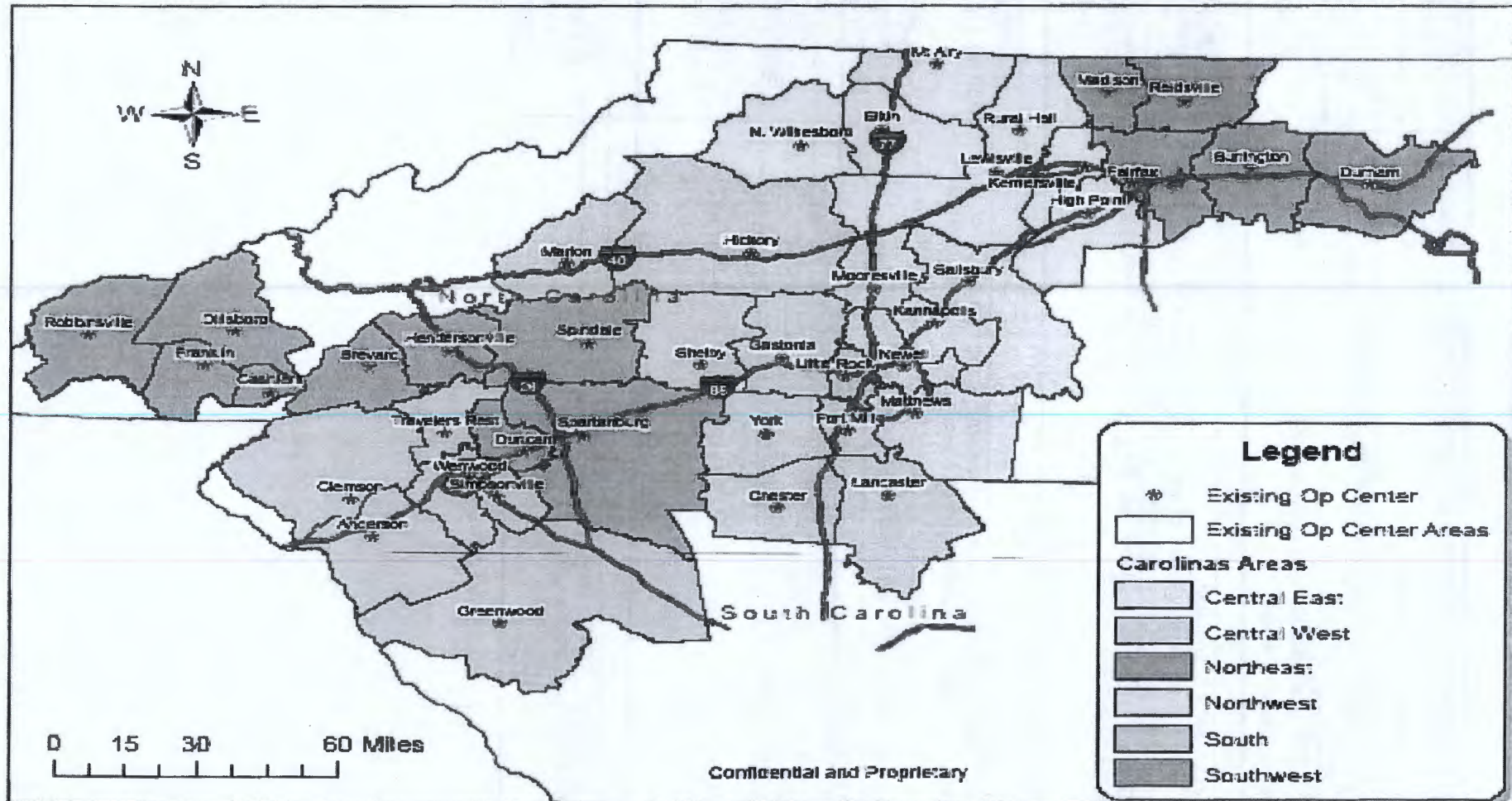
Attachment VI-1

Region, Areas, Counties and Operation Centers		PD-EHS Contact
Central Region C & M – Transmission		Parks Nesbit
Includes Central East Area C & M and Central West Area C&M		Salisbury Op. Center
N.C. - Fleet Services		704-638-4006 (O)
Toddville H&S and SPCC Support		(b) (6) (C)
McGuire Nuclear Station Garage		(b) (6) (p)
Northwest Area C&M - Distribution		David Harmon
Counties in NC: Wilkes, northern part of Iredell, Davie, Surry, Yadkin, Stokes, Forsyth, northern part of Davidson, western part of Guilford		Lewisville Op. Center
Operation Centers: North Wilkesboro, Mt. Airy, Elkin, Rural Hall, Lewisville, Kernersville, High Point		336-917-2527 (O)
		(b) (6) (C)
		(b) (6) (p)
Northeast Area C&M - Distribution		Beth Langley
Counties in NC: eastern Guilford, northern Randolph, Rockingham, part of Caswell, Alamance, Orange, Durham, part of Wake, part of Chatham, part of Granville		Fairfax Op. Center
Operation Center: Fairfax, Madison, Reidsville, Burlington, Durham		336-632-3715 (O)
		(b) (6) (C)
Fairfax Call and Dispatch Center		(b) (6) (p)
Northern Region C & M – Transmission		Buddy Carter
Includes Northeast Area C & M and Northwest Area C&M		Burlington Op. Center
Fairfax Garage		336-854-4885 (O)
		(b) (6) (C)
PD-EHS Remediation Contract Supervisor		Lester C. Williams
Base Location: Hickory Operations Center		828-323-2846 (O)
		(b) (6) ©
		(b) (6) (p)

Attachment VI-2

Power Delivery Field Operations Carolinas

March 6, 2006



Attachment VI-3**Available Spill Clean-Up Material Locations**
(in addition to PD Remediation and Hydro Utility Crew inventories)

Facility	Facility Location	Facility Phone	Contact
Plant Allen	Plant Allen Road Belmont, N.C.	704-829-2350	Don Scruggs
Bad Creek Hydro	Highway 130 North Salem, S.C.	864-944-4000	Larry Oliver
Belews Creek Steam Station	Pine Hall Road Belews Creek, N.C.	336-445-0642	Melonie Martin
Buck Steam Station	Dukeville Road Salisbury, N.C.	704-645-2700	Nob Zalme
Buzzard Roost CT	Highway 34 Chappells, S.C.	336-637-1370	David Brooks
Catawba Nuclear Station	4800 Concord Road York, S.C.	803-831-3000	Margot Rott
Cliffside Steam Station	Duke Energy Road Cliffside, N.C.	828-657-2000	Steve Hodges
Dan River Steam Station	900 South Edgewood Road Eden, N.C.	336-623-0415	George Tolbert
Fairfax Operations Center	2500 Fairfax Road Greensboro, N.C.	336-854-4758	Buddy Carter
Franklin Operations Center	NPL Loop Road Franklin, N.C.	828-369-4567	Mike Bingham
Hickory Operations Center	9 th St. Ln SE Hickory, N.C.	704-382-3708	Steve Hemby
Lincoln CT	Old Plank Road Stanley, N.C.	336-637-1370	David Brooks
Lee Steam Station	Highway S-4-178 Pelzer, S.C.	864-847-3000	Marcus Pitts
Little Rock Operations Center	6325 Wilkinson Blvd Charlotte, N.C.	704-382-3708	Steve Hemby
McGuire Nuclear Station and Garage	12700 Hagers Ferry Rd Huntersville, N.C.	704-875-4000	Ellen Gaddy

Attachment VI-3

Available Spill Clean-Up Material Locations (in addition to PD Remediation and Hydro Utility Crew inventories)

Facility	Facility Location	Facility Phone	Contact
Mill Creek CT	317 Elm Road Blacksburg, S.C.	336-637-1370	David Brooks
Marshall Steam Station	East N.C. Highway 150 Terrell, N.C.	828-478-7619	Donna Burrell
Oconee Nuclear Station	7800 Rochester Highway Seneca, S.C.	864-885-3000	John Estridge
Riverbend Steam Station	Steam Plant Road Mt. Holly, N.C.	704-263-3200	Steve Hodges
Toddville Stores Facility	610 Toddville Road Charlotte, N.C.	704-382-7378	Parks Nesbit
Triangle Operations	4412 Hillsborough Road Durham, N.C.	336-632-3715	Beth Langley
Wenwood Operations Center and Garage	425 Fairforest Way Greenville, S.C.	864-234-4367	Sherry Gillespie

Note: The above facilities are primary locations for oil-spill clean-up supplies. Of these locations, Toddville, Wenwood and Fairfax are primary non-generation locations. Due to the volume of oil stored, the Lincoln CT, Mill Creek CT, Buzzard Roost CT and Riverbend Steam Station sites maintain the most significant stocks of spill response materials.

ATTACHMENT VI-4

PD EHS Remediation Team Equipment

The PD EHS Remediation Team (Contractors) maintains two storage locations-Shelby Tie and the Mine Shaft. The following is a listing of available materials and equipment for spill clean-ups.

Shelby Tie-Equipment

- One backhoe
- Two tandem dump truck
- One service truck
- One Trackhoe
- Assorted shovels and other related equipment

Shelby Tie-Materials

- 80 bags of oil sponge
- 100 gallons of power cleaner
- Additional spill clean-up material can also be obtained through a prearranged agreement with Little Pig Corporation.

Mine Shaft-Equipment

- One Kabota Tractor/Backhoe
- Two dump trucks
- One Mini-X
- One service truck
- Assorted shovels and other related equipment

Mine Shaft-Materials

- 60 bags of oil sponge
- 100 gallons of power cleaner
- Additional spill clean-up material can also be obtained through a prearranged agreement with Little Pig Corporation.

Hydro Utility Crews

Hydro Utility-Equipment

- Two boats
- One 22-foot barge

Hydro Utility-Materials

- One utility trailer with 500 feet of oil boom and other related absorbent materials
- 15 bundles of diapers
- 7 bags of absorbent booms

Spill Prevention Control and Countermeasure Plan - EMAX-099

eMax Station ID: 2708485

Station Name: MOTZ AVE SS, STATION 4244

Station 911 Address: MOTZ AVE, Lincolnton, NC

Operating Area Number: 40 Region: CENTRAL

Location of Master Copy of Plan: STA1179 GASTONIA JCT TIE

Location Phone Number: 704-866-5195

GPS Coordinates: Latitude: 35.460782 Longitude: -81.257308

Directions to Facility: From intersection of Hwys 150 and 321 Business in Lincolnton, go South on Hwy 321 Business (Generals Blvd) Bypass to Hwy 321 South. Go North on 321 toward Lincolnton to Motz Avenue and turn left. Go approximately 2 blocks. The station is on the left.

Date of SPCC Inspection:

4/4/2014

Plan Reviewed By:

Gary D. Ervin

Inspected By:

Gary D. Ervin

Plan Date or Date Re Reviewed:

4/30/2014

I hereby certify this Specific SPCC Plan is in compliance with the provisions of 40 CFR 112 and attest that this Site Specific SPCC Plan was prepared in accordance with good engineering practices.

Corporate License Information / Seal

Duke Energy Carolinas, LLC
F-0566
526 S. Church St
Charlotte N.C. 28201

Engineer Seal



Spill Prevention Control and Countermeasure Plan - EMAX-099

eMax Station ID: 2708485

Station Name: MOTZ AVE SS, STATION 4244

Spill Mitigation Approach: BERMING EXISTING

This facility utilizes a Fire Protection System: N

Description of Fluid Flows in an Event of a Spill:

The station drains through station gravel to the southwest to a polymer gate in the gravel berm. In case of a spill the oil will seal the polymer gate and the oil will be contained in the gravel berm. Water normally passes through the polymer gate and continues to drain to the southwest into an asphalt drive to a storm drain that is believed to flow to the South Fork Catawba River.

Other Comments / Explanations:

A gravel berm has been constructed in the station for containment. Total containment is approximately 8,000 gallons. In case of a spill the oil will be contained in the gravel berm and a call from the customer or the dispatcher(TCC) will enable appropriate Duke Energy response personnel to be quickly notified to respond to the spill. Thus, adequate response time to prevent oil from reaching navigable water will be provided.

Reference Drawings			
Drawing Number		Drawing Description	
4244Aerial		Google View	
4244SP02		SPCC Station Dwg	

Spill Prevention Control and Countermeasure Plan - EMAX-099

eMax Trf Asset ID	Mfr	eMax Asset S/N	eMax Asset Desc			Total Gallons	Major Spill Scenario
2216323	ALLIS CHALMERS CORP	3703610	TRF 01, 1250 KVA, 44.0000 KV			906	TANK RUPTURE
2216324	ALLIS CHALMERS CORP	3703611	TRF 01, 1250 KVA, 44.0000 KV			906	TANK RUPTURE
2216325	ALLIS CHALMERS CORP	3703612	TRF 01, 1250 KVA, 44.0000 KV			906	TANK RUPTURE
Grand Total						2,718	

eMax Brk Asset ID	Mfr	eMax Asset S/N	eMax Asset Desc	# of Tanks	Gal / Tank	Total Gallons	Major Spill Scenario
Grand Total							

eMax CT Asset ID	Mfr	eMax Asset S/N	eMax Asset Desc			Total Gallons	Major Spill Scenario
Grand Total							

eMax Sta Recloser Asset ID	Mfr	eMax Asset S/N	eMax Asset Desc	# of Tanks	Gal / Tank	Total Gallons	Major Spill Scenario
Grand Total							

eMax VT Asset ID	Mfr	eMax Asset S/N	eMax Asset Desc			Total Gallons	Major Spill Scenario
Grand Total							

eMax Reg Asset ID	Mfr	eMax Asset S/N	eMax Asset Desc			Total Gallons	Major Spill Scenario
Grand Total							

TOTAL 2,718

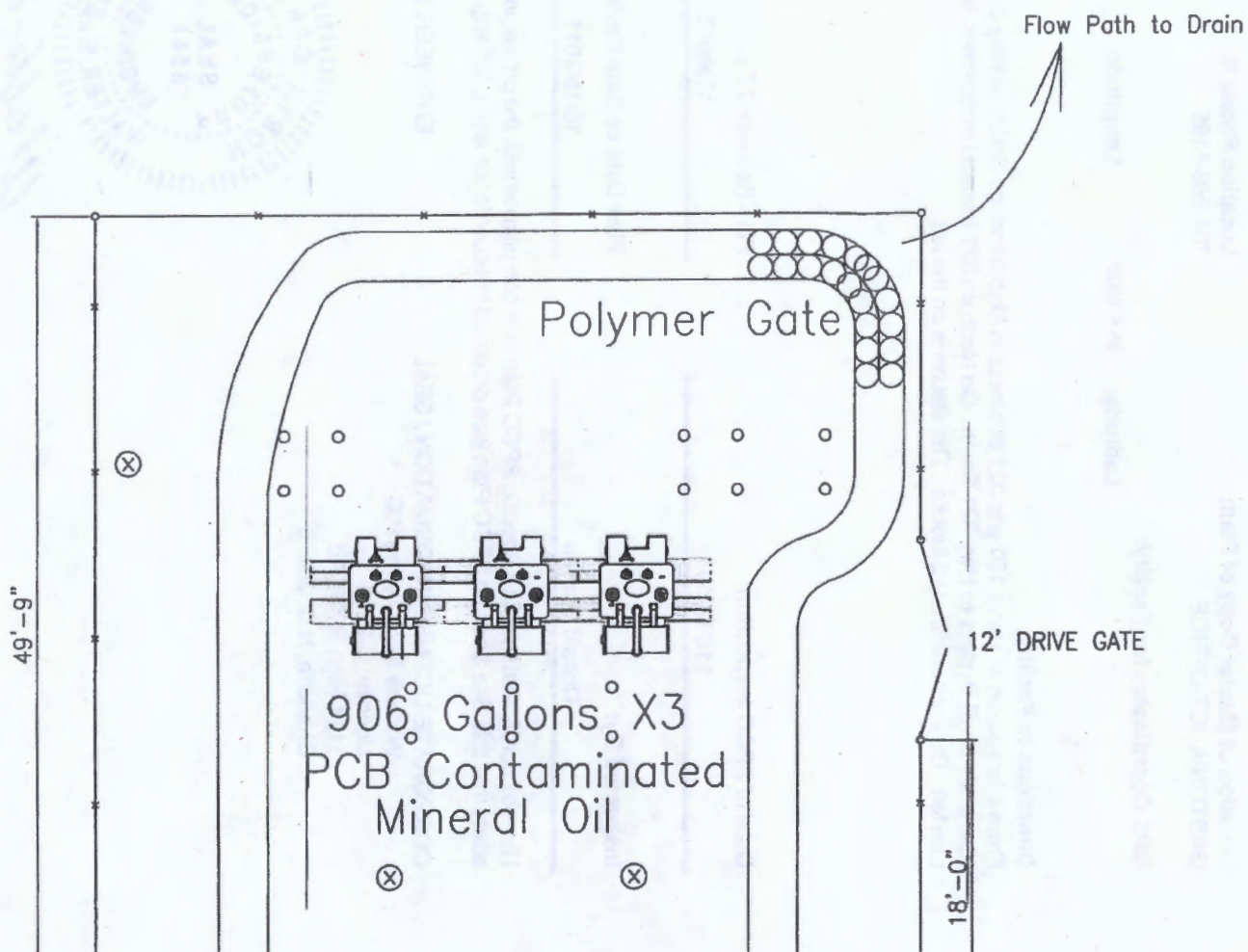
Spill Prevention Control and Countermeasure Plan - EMAX-099

DUKE ENERGY
CHARLOTTE, NC

SPILL PREVENTION, CONTROL & COUNTERMEASURE PLAN SITE MAP

Station Name:	MOTZ AVE SS, STATION 4244		
Location:	MOTZ AVE, Lincolnton, NC		
Station #:	4244	Imagery Date:	4/2/2011
Drawing #:	4244Aerial	Date:	4/9/2014





Spill Prevention, Control & Countermeasure Plan
Site Specific Information

Station Reference #: STA4244

Station Name: MOTZ AVE SS

Station 911 Address: MOTZ AVE, LINCOLNTON, NC

Operating Area #: 40

Carolina Zone: CENTRAL WEST

Location of Master Copy of Plan:
GASTONIA JCT OFFICE

Location Phone #:
704-866-5195

GPS Coordinates for Facility:

Latitude: 35.460805

Longitude: -81.257047

Directions to Facility:

From intersection of Hwys 150 and 321 Business in Lincolnton, go South on Hwy 321 Business (Generals Blvd) Bypass to Hwy 321 South. Go North on 321 toward Lincolnton to Motz Avenue and turn left. Go approximately 2 blocks. The station is on the left.

Date of SPCC Inspection:

11/2/2010

Plan Reviewed By:

Walter E. Sikes

Inspected By:

Donald Warren

Plan Date or Date Reviewed:

10/15/2011

I hereby certify that this Site Specific SPCC Plan is in compliance with the provisions of 40 CFR 112 and attest that this Site Specific SPCC Plan was prepared in accordance with good engineering practices.

CORPORATE LICENSE INFORMATION / SEAL

Watana Engineering P.C.
License: C-2215
3124 High Ridge Rd.
Charlotte, N.C. 28270

ENGINEER SEAL



Walter E. Sikes

Station Reference #: STA4244

Station Name: MOTZ AVE SS

Spill Mitigation Approach: BERMING EXISTING

This Facility Utilizes a Fire Protection System: NO

Description of Fluid Flows in an Event of a Spill

Should a spill occur, oil will flow into berm installed around oil filled substation equipment. If spill overflows the berm, oil will flow southwest across a graveled and fenced substation lot (fenced lot is approximately 50' x 50'). Once oil passes thru the fence, it will continue approximately 100' southwest to a storm drain in front of the building.

Other Comments/Explanations

The berm installed around the oil filled substation equipment is designed to contain oil spilled from the largest single container and rainfall expected to occur until response personnel begin implementation of the Power Delivery Oil Spill Contingency Plan. Details of this contingency plan are contained in Attachment VII of the Duke Energy Spill Prevention Control and Countermeasure Plan, Carolinas- Central Gastonia Operating Areas 40 & 42, Substation Operations & Maintenance Responsibility. The berm is constructed of compacted aggregate base course stone and has a "gate" installed at the low point. The "gate" consists of a length of C.I.Agent barrier boom covered with rip rap. The C.I.Agent barrier boom consists of a non-woven geo-textile fabric filled with polymer material and backed with an additional layer of non-woven geo-textile fabric with polymer fabric material embedded within the fabric. The polymer material is permeable to water, but upon contact with oil becomes impermeable. This results in the C.I.Agent barrier boom acting as a "gate" allowing rainfall to drain from the berm as long as oil is not present. Should an oil spill occur, the "gate" will close, containing any oil and water present and thereby allow time for response personnel to implement the Power Delivery Spill Contingency Plan. Additional details for the berm can be found in the attached SPCC Facility Diagram.

Reference Drawings	
Drawing Number	Drawing Description
4244SM	Site Map
4244SP01	SPCC Facility Diagram

SPILL PREVENTION, CONTROL & COUNTERMEASURES PLAN

SITE SPECIFIC INFORMATION

Station Reference #: STA4244
Station Name: MOTZ AVE SS
Station 911 Address: MOTZ AVE, LINCOLNTON, NC
Operating Area #: 40
Carolina Zone: CENTRAL WEST

SOURCES OF OIL

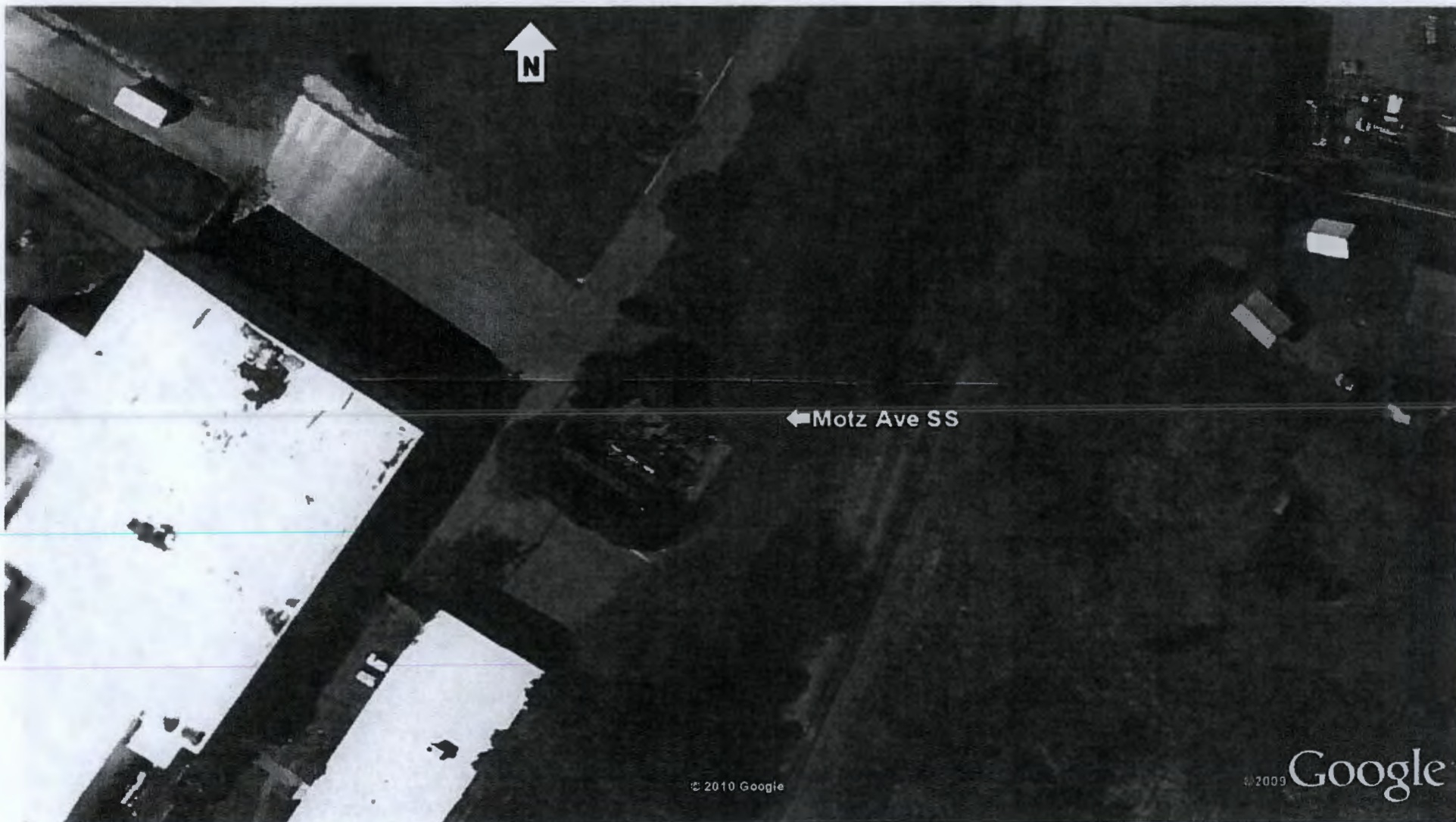
Maximo Equip ID	MFG	S/N	DESCRIPTION	Total Quantity of Fluid (Gallons) Per Container	Major Spill Scenario
TRF1243	AC	3703610	TBK ID: 01 PCB Contaminated	906	TANK RUPTURE
TRF1244	AC	3703611	TBK ID: 01 PCB Contaminated	906	TANK RUPTURE
TRF1245	AC	3703612	TBK ID: 01 PCB Contaminated	906	TANK RUPTURE

Total Gallons of Oil: 2718



Revision Date: 5/19/2010
Form Version 4.0

DUKE ENERGY CHARLOTTE, NC			
SPILL PREVENTION, CONTROL & COUNTERMEASURE PLAN SITE MAP			
STATION NAME:		MOTZ AVE SS	
LOCATION:		LINCOLNTON, NC	
STATION NO:	4244	IMAGERY DATE:	4/11/2010
DRAWING NO:		DATE:	9/18/2011
		4244SM1	



Revision Date: 5/19/2010
Form Version 4.0

DUKE ENERGY CHARLOTTE, NC		
SPILL PREVENTION, CONTROL & COUNTERMEASURE PLAN SITE MAP		
STATION NAME:		MOTZ AVE SS
LOCATION:		LINCOLNTON, NC
STATION NO: 4244	IMAGERY DATE: 4/11/2010	DATE: 9/18/2011
DRAWING NO: 4244SM2		

